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Summary Report of Project No. 209

on

THE DURABILITY AND MUD MOBILITY PERFORMANCE OF 16-20, 8 P.R., NDCC TUBELESS TIRES



to

U.S. Army Ordnance Tank-Automotive Command
Detroit Arsenal
Centerline, Michigan

SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO, TEXAS

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by

Southwest Research Institute Road Evaluation Section San Antonio, Texas

Contract DA-23-072-ORD-1501 December 30, 1960

SwRI Project No. 914-12 Report No. R. E. 16-60

PUBLICATION REVIEW

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Senior Research Engineer

Approved by:

Kenneth D. Mills, Manager

(4)

Road Evaluation Section

Southwest Research Institute

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ACCEPTED TO PROJECT 209

As a result of information obtained from this test, (Project 209), it was found that there was an excessive ascent of
impact breaks occurring in the tire caronss construction, indicating the used of greater strength in this area of the tire.
To correct this condition, Project No. 217 has been initiated
for increasing the tire construction from 8 plies to 10 plies.
This project is now in process of being run and will include
the Sand Test Operations.

CREMC-REM.2 E. D. ROCERS/

(4)

A Introduction

The objectives of this program, conducted by Southwest Research Institute, were to evaluate a new 16-20, 8 ply rating N. D. C. C. tubeless tire intended for use on the Medium Vehicle Family and to compare the durability, mobility, etc. of these tires with standard 11.00-20, 12 P.R., N. D. C. C. tube type control tires. The program was divided into five phases:

1

Phase I Sand Mobility

Phase 2 Vehicle Performance and Air Loss

Phase 3 Vehicle Performance and Tire

Durability at Zero Inflation

Phase 4 Tire Durability on Gravel, Pavement

and Cross-Country

Phase 5 Mud Mobility

Phase 4 was conducted first, followed by Phase 5. Because of the unsatisfactory carcass strength of the 16-20 tires noted during the Phase 4 operation, and because of adverse weather conditions which prevented operation in an 18-inch depth of dry sand, the first three phases were later deleted, with the expectation that more plys would be required in these tires. This Summary Report includes all pertinent information previously submitted in Progress Reports. Following the Abstract of Results, presented in Section B below, an unabridged discussion of the results of each phase is presented in Section C. Sections D and E present chronologically the test procedures and data.

B. Abstract of Results

Phase 4 - Durability on Gravel, Pavement and Cross-Country

The 16-20 tires had good wearing and riding characteristics, caused no difficulty in vehicle handling (except the steering required more effort) and were lighter in weight than the 11,00-20 tire and wheel assemblies. They did not, however, resist penetration failures satisfactorily and had the further disadvantage of being impossible to dismount for repair or replacement from the one-piece drop center safety rims, with hand tools, after the tires had accumulated some mileage.

Phase 5 - Mud Mobility

On a slick, 1 to 2 inch depth of mud overlaying a hardpan surface, the vehicle with 11,00-20 tires appeared to have a slight advantage in

being able to exert a greater drawbar pull than the vehicle equipped with the 16-20 tires. Reducing the tire pressures did not appreciably affect drawbar capabilities under these conditions. In a 12 inch depth of very soft mud, the 16-20 tires, inflated to 12 psi, had a definite advantage over the 11.00-20 tires inflated to the same pressure

C. Discussion of Results

Phase 4 - Durability on Gravel, Pavement and Cross-Country

Two M135, 2-1/2 ton 6 x 6 trucks were operated together during this phase, one of which was equipped with the new 16-20 tires and the other with conventional 11.00-20 tires. During the first 8902 miles, with the 16-20 tires inflated to 36 psi (cold), all four of the bogie tires failed from rock cuts or breaks at mileages ranging from 1186 to 2671 miles. In addition, one front tire failed from the same cause after 7466 miles.

On May 6, 1960, new 16-20 tires were mounted on the bogies of one truck and the test was resumed with all of the tires on this truck inflated to 30 psi (cold). During the subsequent 9250 miles of operation, three more bogie tires failed from rock cuts at mileages ranging from 186 to 8344 miles.

During this period, the only original front tire in service developed a leak in one of the many deep cuts in the tread and was removed from test after a total of 10,575 miles.

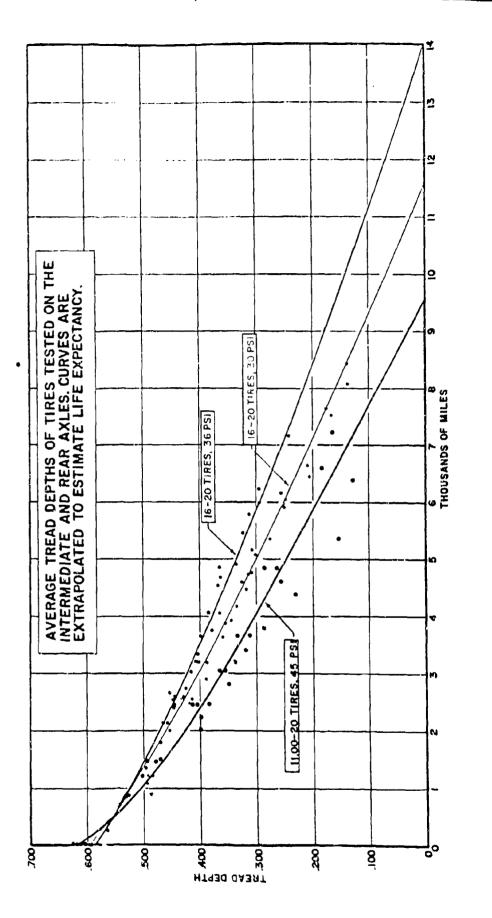
The 11.00-20 tires were inflated to 45 psi (cold) during the entire test. One of these failed from an unknown cause (possibly a puncture) and was damaged from having been run flat on the cross-country course. A second failed from a rock cut in the side wall near the shoulder. Six other 11.00-20 control tires were worn out (but still held air) at mileages ranging from 5317 to 8384 miles for bogic tires, and from 12,086 to 12,628 miles for front tires. Test of the 11.00-20 tires was terminated May 23, 1960, after a total of 12,927.9 miles, because the supply of control tires of this size scheduled for durability test was exhausted. Test of the 16-20 tires was terminated on June 13, 1960, after a total of 18,152 vehicle miles because of excessive mechanical maintenance requirements.

Two of the nine penetration failures of the 16-20 tires were of the "X break" type frequently experienced on rocky terrain. The other seven had the appearance of straight cuts through the tread rubber and cords. In addition, the 16-20 tires did not resist cutting of the tread

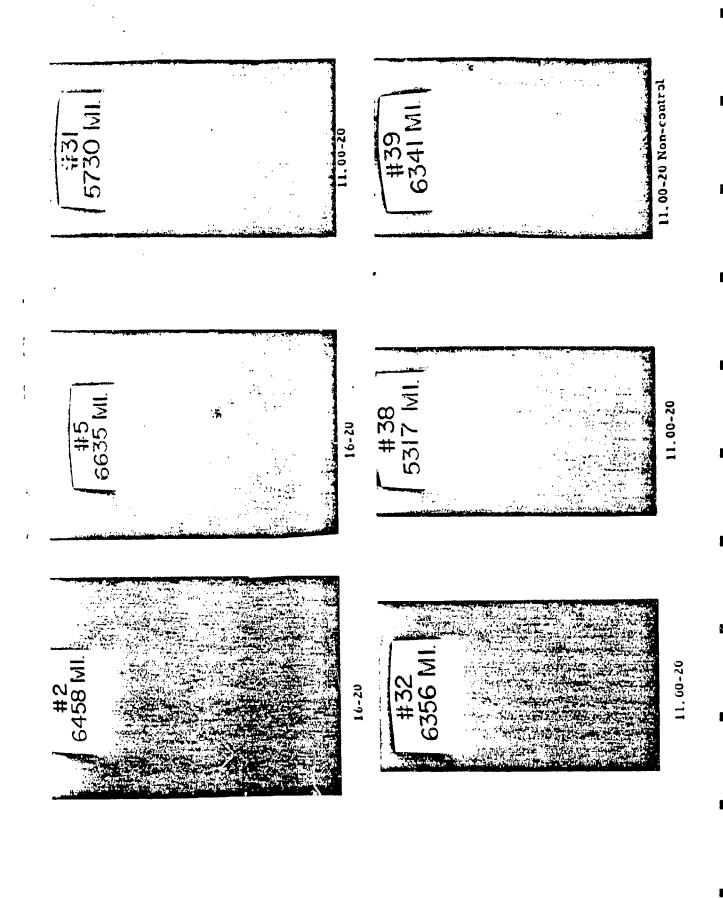
rubber (to the cords) very well and the larger cuts tended to grow as the test progressed. In at least one case, noted earlier, a cut split open and enlarged to the point of causing the tire to leak. No trouble was experienced with tread separations or air loss between the bead and the rim. The safety rims held the beads so tightly that it was impossible to dismount the tires with hand tools after they had been run. Dismounting was accomplished with a Branick Model TTR portable pneumatic press type bead breaker. The original mounting of these tires on one piece drop center rims was easily accomplished with hand tools.

The 16-20 tires gave a softer ride, which is important from the standpoint that reduction of shock loadings could possibly reduce vehicle maintenance requirements and could offer some advantage in transporting electronic equipment or wounded personnel. Steering, particularly at low speeds, requires more effort than with 11.00-20 tires but this could be overcome with power steering. Wearing characteristics were good, as shown graphically on Page 4. The 16-20 tire and wheel assembly weighs about the same as a standard military wheel with a 9.00-20 tire and tube, and is about 35 pounds lighter than an 11.00-20 assembly. This means that a 6 x 6 vehicle equipped with the 16-20's would be 210 pounds lighter than one equipped with single 11.00-20 and 740 pounds lighter than one equipped with dual 9.00-20's on the bogies.

The 11.00-20 tires had better resistance to penetration of the cords by sharp rocks and they steered more easily. The tread rubber, however, had inferior resistance to cutting and abrasion and wore out very rapidly. A photographic comparison of the abrasion of the 16-20 (No. 2 and No. 5) and 11.00-20 tires appears on Page 5. Tire 39, in this photograph, was a non-control tire, as explained on Page 18, run at the same time as the other 11.00-20's, and had excellent cut and abrasion resistance.



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Two M35, 2-1/2 ton Reo 6 x 6 trucks were used during this phase, one of which was equipped with single 11.00-20 tires (in the M34 configuration) and the other with single 16-20 tires. Drawbar effort was measured with these vehicles operating on a slick 1 to 2 inch depth of mud overlaying a hardpan surface. Under these conditions, varying the tire inflation pressures did not affect the drawbar capabilities appreciably and in most tests, the 11.00-20 tires had a slight advantage, although the margin of difference was small.

1.

In a 12 inch depth of mud, the most practical measurements for comparison of mobility characteristics seemed to be the time required to cover a measured distance or the distance traveled before the vehicle became stuck. In very soft mud which had a 12 inch depth, reducing tire inflation pressures improved mobility and under these conditions, the 16-20 tires gave enough floatation and tractive effort to carry the vehicle the entire length of the mud pit, whereas the truck with 11.00-20 tires became immobile before traveling half the length of the pit. Tread design probably does not exert much influence on mud mobility if the mud is at all sticky, as was the case here, because the treads fill 100% and the tires assume a toroidal appearance.

- D. Phase 4 Tire Durability, Gravel, Pavement and Cross-Country
 - 1. Preparation of Vehicles for Test

Eighteen tubeless 16-20, 8 P.R., N.D.C.C. tires and twelve* 11.00-20, 12 P.R., N.D.C.C. conventional tube type tires were submitted for this initial phase. The 16-20 tires were mounted on special one piece drop center wheels manufactured by the Budd Company. In mounting these tires, Ruglyde was applied to the beads to facilitate seating of the tire bead against the rims with less than 40 psi intlation pressure. The 11.00-20 tires were mounted on standard two-piece military wheels.

The durability phase was conducted with three M135, 2-1/2 ton 6×6 trucks which had the following serial numbers:

USA 41149012 USA 41123434 USA 41144661

*Four of the 11.00-20 tires, however, were reserved for mobility tests.

Reference to the vehicles in this report will be by the last two digits of the serial numbers. These trucks had been rebuilt at Red Rever Arsenal and were delivered to the Institute on flat bed trucks.

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In preparing the vehicles for test, the electrolyte was poured in the batteries, preservative material drained from the fuel tanks, cab and cargo body tarpaulins were erected and the lubricant level in all units was checked. The chassis were greased, and upon completing a mechanical check of valve lash timing, etc., the trucks were road tested. Clearance and turn signals were installed in compliance with state regulations. Tachographs were installed and calibrated.

The cargo bodies were divided longitudinally and laterally into six compartments with heavy wooden baffles and were ballasted with gravel. The baffles facilitated adjustment of the weight distribution and prevented the ballast from shifting while the vehicle was in operation. The gross vehicle weights were determined on a state certified scale and individual wheel weights were obtained on two scales which had platforms set flush with the floor. The weights were as tabulated below.

Truck No.:	12	34	61
Leir Front	3330 1Ь.	3110 15.	3270 1b:
Right Front	3220	3165	3300
Left Intermediate	3330	3570	3310
Right Intermediate	3350	3450	3220
Left Rear	3708	3800	37 50
Right Rear	3750	3630	3800
GVW (State Certified)	20,700	20,715	20,620

The small variation between the sum of the wheel weights and the actual GVW was believed caused by hysteresis in the suspension system. This factor, together with some apparent variation in spring rates, caused considerable difficulty in trying to obtain 7500 pound loads on the rear and intermediate axles with only about a 6400 pound loading on the front axle.

The 11.00-20 tires were inflated to 45 psi, the 16-20 tires to 36 psi, and preliminary measurements of width and outside diameter of each tire were taken. Similar measurements were taken 24 hours later before the wheels were mounted on the vehicles. The width measurements were taken with a large caliper, and the diameter determined by measuring the circumference along the center rib with a Pi tape. Concurrently with the second measurements, the tread depths were measured

at ten premarked locations at approximately equal intervals about the periphery, on alternate sides of the center rib. The base of the Federal dial gage depth micrometer, which had one thousandth inch subdivisions, spanned between two lateral tread bars so measurements could be taken at the center of the radius that is tangent to both tread bars and the center rib. The crown radius was determined at three equally spaced points with metal templates, and the rubber hardness was measured with a Shore Durometer in three random locations on each tire. In addition, the tire and wheel assemblies were weighed (deflated) on a platform scale graduated in hundredths of a pound.

In mounting the wheels on the test vehicles, it was necessary to machine 1/4" off the outside diameter of the front brake drums to fit the special wheels used with the 16-20 tires. In addition, because of the greater width of these tires, they would not fit on the spare rack without modification, so the spare was carried in the bed of the truck. The 16-20 tire and wheel is about 35 pounds lighter than the 11.00-20 assembly. This difference in weight was offset by carrying a tow bar in the vehicle with the lighter tires.

2. Operation of Vehicles on Test Course

While the above work was in progress, the test course was laid out and distances were measured with a calibrated odometer. The total distance covered in an eight-hour shift was 148.4 miles, divided as follows:

Type Driving	Max. Speed	Distance Miles	Time Req'd Minutes	Percent of Total Miles
Cross-Country	10	22. 30	222	15%
Gravel Road	30	22, 24	38	15%
Highway	45	103. 9	156	70%

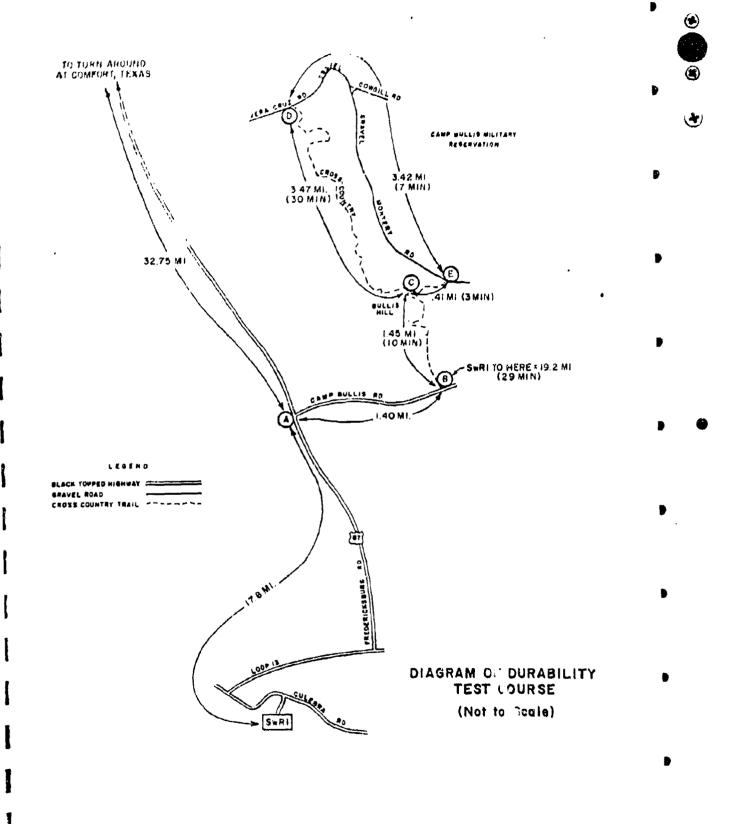
Total driving time was 416 minutes, which left time during an eight-hour shift for fueling the vehicles, tightening lug nuts, checking tire pressures as well as contingencies such as changing a flat tire.

The cross-country and gravel courses were on the Camp Bullis Military Reservation on the northwest side of San Antonio. Highway mileage was accumulated between the Institute and Camp Bullis and between Camp Bullis and Comfort, Texas, as shown on the diagram on Page 10. Prior to starting the test, a 1500 yard section along Vera Cruz Road, connecting the cross-country trail with Montery Road, required gravel surfacing. Six-hundred-twenty-five cubic yards of 1/4" to 1-1/4"

screen-size crushed limestone (railroad ballast) were spread to a depth of 2.5" to 3" on Vera Cruz Road. An additional 75 cubic yards of gravel were spread on Montery Road in places where the original gravel had become dispersed or worn thin. As the test progressed, maintenance with a road grader and some additional gravel were required periodically.

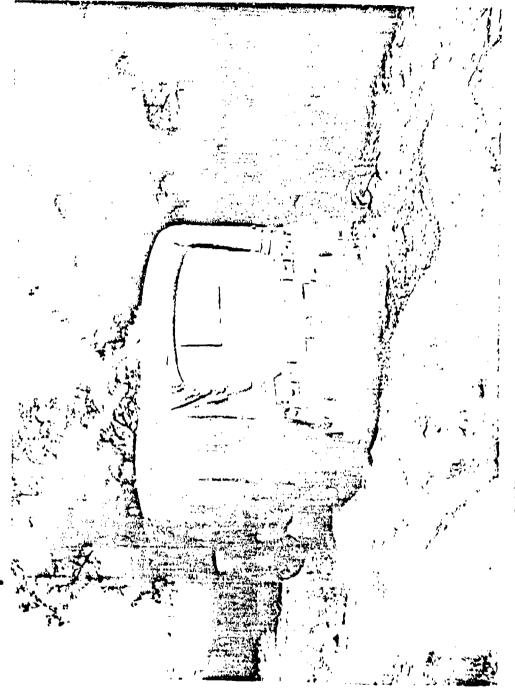
Photographs of one of the M135 trucks with 16-20 tires, on Pages 11 through 14, show the nature of the trails and terrain on the cross-country course. In general, the area is hilly with many steep grades, and the trails are either entirely of rock or have only a thin overlay of gravel and dirt. Many areas present stair-step rock ledges which tend, particularly in wet weather, to cleave from time to time. This presents fresh abutments for the trucks to negotiate and more loose rocks are scattered on the trail. The loose rocks eventually become broken and pulverized and are replaced with more loose rocks. In this respect, the conditions remain unchanged over a period of many years.

The highway mileage was accumulated on black top surfaced roads. Part of these roads had a very fine textured seal-coat type surface, and part had a worn pea gravel and asphalt surface. Neither of these surfaces was unusually abrasive.

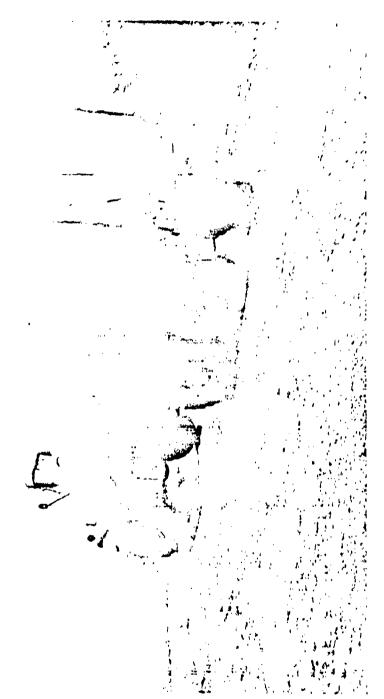




2-1/2 Ton, M135 Truck with 16-20 Test Tires on the Camp Bullis, Texas Cross-Country Course



2-1/2 Ton, M135 Truck with 16-20 Test Tires on the Camp Bullia, Texas Cross-Country Course



2-! '2 Ton, M135 Truck with 16-20 Test Tires on the Camp Bullis, Texas Gross Country Course



2-1/2 Ton, MI35 Truck with 16-20 Test Tires on the Camp Bullis, Texas Cross Country Course

Actual operation of the vehicles on the test course was started at 2:30 p. m., March 24, 1960, with truck numbers 12 and 34. After truck 34 had run about 2-1/2 miles on the cross-country course, a rod bearing failed. The tires from this truck were installed on spare truck number 61 and the test resumed on March 25. Operation was on a two-shift per day basis, five days per week. During the morning shift, which started at 2:30 a.m., the vehicles were run 84.7 miles on the highway, and after the drivers had a thirty-minute breakfast, the cross-country and gravel course driving was started at dawn. After negotiating five laps in a clockwise direction on the Camp Bullis course (plus doubling back once on the gravel road from Intersection E to Cowgill Road), the drivers returned to the Institute at approximately 10:30 a.m. The evening shift started at 2:30 p. m. and the drivers completed five laps on the Camp Bullis course in a counter-clockwise direction at dusk. After a thirtyminute dinner, the trucks were driven on the highway for the rest of the shift. The interval between 10:30 a.m. and 2:30 p.m. was available for tire rotation and measurement, vehicle maintenance, etc. Daily rotation of the drivers between the vehicles canceled the influence of their individual driving characteristics.

The diagram on Page 10 shows point to point mileages and time intervals which were determined before the test was started. Actually, as the drivers became more proficient, they were able to complete the 7.3 mile cycle on the Camp Bullis course in about 33 to 35 minutes instead of 40 minutes.

3. Scheduled Tire Rotation and Measurement

Tires were rotated in a figure "8" about the rear bogies and from side to side on the front wheels every other day (every 594 miles). After completing a circuit on the rear bogies, the tires were scheduled for complete measurements, similar to those taken initially, and exchange of the tires between the two vehicles. When it became apparent that some tires would fail before reaching the second measurement period, tread depths were measured every other day at the same time the tires were rotated.

Tire deflection measurements were scheduled initially and during each major measurement period. Several approaches were taken in attempting to obtain valid deflection data, the last of which was as follows:

(a) The vehicle was driven into the fleet laboratory slowly and allowed to coast to a stop after the ignition switch was turned off, without applying the brakes.

- (b) After the tires had cooled to approximately ambient temperatures, the pressures were checked and adjusted with a dead-weight tested Ashcroft bourdon-tube gage.
- (c) The lowest point on the edge of each wheel rim, directly below the center of the axle was marked with a center punch.
- (d) The perpendicular distances from the concrete floor to the punch marks were measured with a machinist's surface gage which had a vernier adjustment in the base and a steel scale graduated in 1/32" increments.
- (e) After completing these measurements on all six wheels, one wheel at a time was jacked up until rotation of the wheel produced only a trace of drag in its contact with the floor. Unloaded heights were then recorded as in step (d).
- (f) The unloaded height was then divided by the difference in the two measurements obtained at each wheel to give percent deflection. The average of the deflections of all four bogie wheels then gave the most valid value.

Hysteresis in the suspension system causes the individual wheels to carry different loads under a static condition, as was noted in hallasting these vehicles, and the percentage of tire deflection is proportional to the load. (Under dynamic conditions of actual operation, vibration and minor irregularities in the road surface probably cause the bogic suspension to split the load fairly evenly.) The following typical tabulations indicate the extent of the variations found in measuring deflections by the above procedure:

Tire Deflection Measurements

(Truck No. 61, 16-20 Tires, 36 psi Pressure, April 13, 1960)

Wheel Position	Tire No.	Unloaded Height	Loaded Height	Percent Deflection	Average Fronts	Average Bogies
L. F.	9	11.0625	9. 3438	15.5	15.7%	
R. F.	15	11.0625	9.3125	15.8	, ,	
L. I.	13	10.9688	8.9063	18.8		
R. I.	12	11.6250	9.6875	16.7		17. 2%
L. R.	16	10.9063	9.0625	16.9		
R. R.	8	11. 1563	9.3125	16.5		

Tire Deflection Measurements (cont'd)

(Truck No. 12, 11,00-20 Tires, 45 psi Pressure, April 13, 1960)

Wheel Position	Tire	Unloaded Height	Loaded Height	Percent Deflection	Average Fronts	Average Bogics
L. F.	34	9.7188	8.2813	14.8	14%	
R. F.	36	9.6875	8.4063	13.2		
L. I.	31	9.5938	8.0313	16.3		
R. 1.	33	9.8125	8.2813	15.6		16.1%
L. R.	35	9.8438	8.1563	17.1		
R. R.	32	9.6563	8.1875	15.2		
(Truc	k No. 3	4, 16-20 Ti	res, 30 ps	Pressure, A	May 18, 196	50)
L. F.	18	10.750	9,000	16.3	16.6%	
R. F.	10	10.9375	9.0938	16.9		
L. 1.	2	10.969	8.719	20.5		
R. I.	11	11.125	9.1875	17.4		18.3%
L. R.	7	10.719	8.719	18.7		
R. R.	4	10.875	9.0625	16.7		
'(Trucl	k No. 12	2, 11.00-20	Tires, 45	psi Pressure	, May 18,	1960)
L. F.	36	9.469	8.125	14.2	14.6%	
R. F.	34	9.406	8.000	14.9		
L. I.	*	9.875	8.250	16.5		
R. I.	*	9.719	8.313	14.5		15.2%
L. R.	A	9.8125	8.219	16.2		
R. R.	39	9.5625	8,281	13.4		

*All four bogie tires were non-control tires.

Because of the inherent inaccuracy, measurement of deflections was discontinued. It is recommended, in conducting tests with the M135 series vehicles, that a special fixture be constructed to measure deflections on individual wheels in a hydraulic press or else that the work be conducted on a scale to indicate individual wheel weights at the same time the deflection measurements are taken. By doing this, a wheel loading versus tire deflection curve could be developed and any deviation from the curve, as the test progressed, could be noted. The M34 and M35 series vehicles do not have overload springs and less difficulty was experienced in getting evenly divided bogic wheel weights when preparing these vehicles for mobility tests. The deflection measurement

procedure outlined on Page 15 would probably work satisfactorily with the 6 x 6 M34 or on four-wheeled vehicles.

Tire cord temperatures were measured with a hypodermic needle thermocouple connected to a potentiometer. Recordings were made immediately upon the arrival of the trucks at the Institute at 10:30 a.m., after the trucks had run 19.2 miles on the highway at 45 mph. It is believed that this represented the period of peak temperatures, since the bulk of the highway mileage was accumulated at night. Recorded values varied with ambient temperatures, solar radiation, whether the tires were relatively new or worn, inflation pressure, precipitation, etc. Comparison of the average temperature of the four bogic tires on any given day indicates that the 16-20 tires ran at an average of from 5° to 13° F cooler than the 11.00-20 tires. The operation was not conducive to high temperatures, and the maximum tire temperatures recorded during the test when the 16-20 tires were inflated to 36 psi (cold) were 125°F (at 72°F ambient) for the 16-20 tires and 140°F (at 75°F ambient) for the 11.00-20 tires.

On May 6, 1960, test of the 16-20 tires inflated to 36 psi (cold) was discontinued and a new set of similar tires were mounted on the bogies. These, and the front tires, were inflated to 30 psi cold. A valid comparison of temperature could not be made with the 11,00-20 tires on a day-to-day basis because the 11,00-20 tires still on test were nearly worn out. The 16-20 tire temperatures recorded during the first 2000 miles of the 30 psi test were generally in the 135-140°F range at about 70°F ambient. As the tires became worn, ambient temperatures increased to the 80-90°F range and the tires continued to run in the 135-140°F range.

Running inflation pressures were recorded daily at the completion of the cross-country operation and upon arrival at the Institute. Pressures in the 16-20 tires normally increased to approximately 40 psi in the 36 psi test and to 34 pri in the 30 psi test. Pressures in the 11.00-20 tires increased from 45 psi (cold) to approximately 52 psi.

As the test progressed, the supply of 11.00-20 tires scheduled for durability test was exhausted, so to keep the vehicle running to complete the test tires still in service, several "non-control" tires were used. These were manufactured in 1959 and were selected from the tires which were on the trucks when they were received from Red River Arsenal. Complete measurements were taken on one of these non-control tires, which was numbered 39, and tread depth measurements were taken on another, designated tire "A". The following differences between the test tires and these two non-control tires were noted:

- (a) Operating temperatures were from approximately 25-40°F higher than the control tires, and ran as high as 183°F.
- (b) Air pressure built up from 45 psi cold to 55 psi hot; the pressure build-up in the 11.00-20 control tires was about 7 psi.
- (c) Antioxident caused light green discoloration; the control tires turned light red.
- (d) The non-control tires had a greater durometer hardness.
- (e) The non-control tires had very good resistance to cutting and abrasion
- (f) Wearing characteristics of the non-control tires were comparable to the 16-20 test tires and were considerably better than the 11.00-20 control tires.

4. Data, Durability, Phase 4

Complete tire measurement data is presented on the following pages followed by a tabulation of unscheduled tire maintenance.

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	Loss		3.6	6			BCGIE	TIRE						
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	0	4-7	. 598	.600	. 600	. 600	.598	. 598	. 600	. 600	. 599	.500	. 599	52 54
	241, 8	4 18	.565	. 501	. 561	. 585	. 586	.565	. 568	. 566	. 570	.552	. 375	52 52
	809.4	4-28	.534	. 526	, 540	. 524	.536	.530	.539	. 532	. 535	.530	. 533	52 50
	1337, 5	5-2	.499	. 492	.500	,495	. 500	.494	. 502	. 493	, 495	.492	. 496	
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52 54 52	10.7/8	10 7/3	10-7/8	10-7/8	15-1/16	13.1/15	15-1/16	43,49			
52 52 50	11-1/8	11-1/8	11-1/8	11-1/8	15-5/18	15-5/16	15-5/18	44.12		·	,
52 50 52	11-1/8	11-1/3	11-1/8	11-1/8	[5-3/B	15-3/8	15-3/8	44,27			
53 5354	11-1/8	11-1/3	11-1/3	11-1/8	15-5/18	15-5/18	15-5/16	44.09			
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Assign	ed Tire No	•	2					Ti	ro Siz	•	16 20				Þ
	ial Weight nal Weight	-		16	~			L	rlatio	n Pr s t	surs	(cold)	30	p.s.	!
,,	_	·													
	1201		13.17				BOGIE							, ,	. •
Cdom Miles	Actual Milas	Date	1 Cut		3 Out	TREAD 4 In	DEPTH 5 Out	1 PO31 6 In	7	8 In	9 Out	10 In	Av3 Daoth	HARDE (6 3	1
	0	5-6	.600	. 600	. 599	. 600	. 599	. 598	. 598	. 599	.598	. 600	.599	53 54	:
	1193.4	5-11	, 498	, 500	. 495	. 495	. 498	. 490	, 491	, 494	. 437	433	.494		-
	2527.1	5-17	. 419	.420	. 415	. 413	. 416	. 408	. 416	. 418	, 415	, 418	.413	45 46	E
	318 3.7	5-19	.400	.391	. 395	. 381	. 395	.378	. 395	. 385	, 372	. 394	. 339		_
	3913.7	5-23	. 347	.349	. 350	. 347	. 359	.340	. 347	. 346	. 341	, 348	.347		<u> </u>
	4460.9	5-25	. 332	. 322	. 330	. 328	. 334	. 320	. 326	. 324	. 329	. 335	. 320		_
	4757.7	5-27	. 309	. 313	. 317	. 312	. 320	.304	. 310	. 315	. 305	. 313	. 312	48 46	5
	5075.1	6-2	. 302	. 307	. 310	. 299	. 315	.295	. 304	.302	. 292	, 316	. 304		_
	5958.1	6-7	. 254	.264	. 252	. 252	. 265	.247	. 255		. 244		1	50 50	_ 5′
	6458.2	7-6	. 205	. 211	. 209	. 208	. 223	.200	.208	. 103	. 138	, 220	. 207	52 52	5:
}						-	 -					-		-	
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RSMARI	C3) - Note	malie a	e. date	and :	result	of in	specti	on for	cuts,	braak	3. 501	caratio	n. wheel	l cracks	G
	5-6 MEA									يوري سايب شار					
	5-17 - 1-					_			: OND · I	FUZZY					
	5-27 - v	WO 814	3" cut	- MAH	Y SMAL	L CUTS	AND TO	RE HAS	FUZZY A	APPEAN	ANCE				
	6-7 - 1									•					
								······································							
	6-13 - +	KOT TER	MINATES	BEGAU	8E OF 1	MECHAN	IGAL FA		OF THUE	K - 710	E HOL	03 AIR A	ND 19 IN	SATISFAC	70
	7-6														_
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Tire Serial Mo	ON CN	48253
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0 p.s.1.

	HARDIESS (6 3 Random	CE	CHN RADI	ບອ			WIDTH		0. D.	DEF no lead	LICTION	8
uh.	Foints }	1	2	3	AVZ	1	2	3		hoight	leaded height	Daf.
_	53 54 53	10-7/8	11-1/8	11.1/5	11.04	15.00	15.00	15.00	43,21			
_	45 46 50	11-1/8	11-1/8	11-1/3	11-1/8	13_9/32	15-9/32	15-9/32	43.90			
_	48 46 50	11:1/8	11 1/8	11-1/8	11.1/8	15-10/32	15-10/32	15-10/32	43.63			
	50 50 50	11.3/8	11 3/8	11-3/8	11-3/8	15-11/32	15-11/32	15-11/32	43.58			
_	52 52 52	11-3/8	11-3/8	11-3/8	11-3/8	15-12/32	15-12/32	15 12/32	43.41			
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SPACTORY CONDITION AFTER A YOTAL OF 6458.2 MILES	——————————————————————————————————————
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¥1.1	nal Weight												3 0	•
	loss						BOG	IE TIR	ľΕ					
on lss	Actual Milas	Date	1 Out	2 In	3	4	DEITH 5 Out	6	7	· g	9 Out	10 In	AVg Deptn	HA)
	0	5.6	. 596	. 600	. 598	. 600	600	.600	.600	. 603	.597	. 603	.600	54
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MARK	Sı - Note	alleag	, dau	and	result	of in	#pectio	n for	cuts,	break	50)	eratio	n, whoe.	l crue
	FAILED FRO	M STONE	CUT A	700 18	35. 6 MI			OH 5	7.1960					
														
														
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(4) Tire Serial No. GN 31319 18 Wheel No. 30 p.s.i. (4) CROWN RADIUS HARDIESS MIDTH 0. D. DEFIZETION no load loaded (& 3 Raidom 3 ÁVZ hoight Def. 1 2 3 Depth foints Avg height 11.042 14-15/16 14-15/16 14-15/16 43.29 .600 54 53 53

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Initi	al Weight	18	1, 10 Lua					I	flatio	n Pro	saure ((price	30	p.s.i.
₽7.1	el Weight	16	1.10		-									
	Loss	2	0,00			8	OGIE T	TIRE						
Odom Miles	Actual Miles	Date	1 Out	2 In	3 Out	TREAD 4 In	DEFTH 5 Out	POSI 6 In	7		9 Out	10 In	Avg Dopth	HARD:ES3 (& 3 Ras Foints
	0	5-6	. 600	. 602	. 600	.606	. 602			.605	.605	. 603	.603	52 51 53
	1193.4	5-11	. 501	. 505	. 500	. 506	. 499	. 507	. 503	. 502	. 503	. scs	.503	
	2590.1	5-17	. 435	.429	. 427	. 433	.426	. 436	.438	. 433	. 434	. 437	. 433	52 53 51
	3183.7	5-19	. 395	.402	.400	. 407	.404	. 403	.405	.410	. 400	, 402	.403	
	4048.7	5-23	. 370	.367	.359	. 368	. 361	. 372	.372	. 367	372	. 370	.338	
	4595.9	5-25	. 327	.320	.329	. 318	. 325	.329	.331	. 334	.330	. 325	.327	
	5160.2	5-27	. 308	. 305	.309	. 312	. 312	. 308	.315	. 312	. 314	. 304	.310	55 54 54
	6166.8	6-2	. 255	. 257	. 252	. 256	. 253	.265	.264	. 282	. 252	. 260	.258	
	7643.0	6-7	. 160	. 172	. 186	. 172	. 169	. 187	. 184	. 190	. 173	. 178	1.177	53 53 55
-	8419.6	7-6	, 149	, t44	. 121	. 137	. 133	. 154	. 135	.147	. 140	_ 13,6] ر	.140	52 54 54
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REMARI	3: - Note 5-17 - 1/													l oracks et
	5-27 - •								~~~~~				100	~~
- 	6-7 - w												·	
	6-13 - TE	SY YER	MINATE	BECAU	SK OF	MECHAN	ICAL FA	ILUNE C	or TRUC	H - TIP	HOLD	AIR A	ND IS IN	BATISPAC TOP
	7-6	HAL IHE	PECTIO	C ONE	BPIN C	UT, ON	2° cu	IT TO C	ORG AHO	MULT	IPLE SM	ALL CU	ть 1/2*	ro 1-1/2*

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3 Randon	i		.03			MIDIH	ł	0. D.	Ded on	NOI TOXI'	7
oints)	1	2	3	AVG	1	2	3		hoight	height	Def.
51 53	11-1/8	11-3/8	11-3/8	11. 292	15-3/32	14-31/32	14-31/3	43.20			
53 51	11-1/8	11-1/8	11-1/8	11-1/8	15-11/32	15-11/32	15-11/32	43.66			
		!	<u> </u>								
5 54 54	11-5/8	11-5/8	11-5/8	11-5/8	15-5/18	15-5/16	15-5/16	43.38			
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		11-7/8			15-7/16						
2 54 54	11-7/8	11-7/8	11-7/8	11-7/8	15-13/32	15-13/32	15-13/32	42.87			
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ucks etc.											
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algn	ed Tire No.	•!	5					Ti	e Siz	•	8-20				
Init	ial Weight	179,	47 (.85					In	Clatic	n Pres	sure ((bloo	30	p.s.	1
m	nal Weight	164.	73		بتيسي										
	Loss	14.	74			8	OGIE .	TIRE							
tom	Actual Milse	Date	1 Out	2 In	3 Out	TREAD L Ln	DEPTH 5 Cut	POSI 6 In	7	8 In	9 Out	10 In	Avg Depth	HARDII (4 3 Foin	77.
	0	5-11	. 610	, 503	. 603	. 610	.600	. 600	.600	. 604	.604	.605	. 604	54 53	:
	569, 3	5-19	. 552	, 543	. 542	. 546	.538	. 542	. 542	. 545	. 543	.542	. 544		_
	1434.3	5-23	.50	, 490	, 487	,499	.500	. 490	. 496	.488	. 499	.492	.495		_
	1981.5	5-25	.464	.449	. 462	. 455	.457	. 458	.456	.454	. 453	.458	.458		_
	2545.8	5-27	.440	. 425	. 440	.440	.438	. 432	.436	.438	. 437	.438	.436	52 52	
	3869,8	6-2	. 362	. 342	. 362	. 362	. 355	. 353	. 357	. 357	. 358	.357	. 357		
	5346,4	6-7	.299	.253	. 285	.282	.277	. 276	. 278	.266	. 280	.277	.277	50 50	_:
	5899.2	6.9	.259	, 227	. 259	, 273	. 256	.239	. 256	.240	. 252	.265	.253	<u> </u>	_
	6635.4	7-6	. 213	. 199	. 222	.214	.219	.200	.210	.205	.211	.209	.210	54 54	
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5-13	THE TIRE PUT ON SPARE HAGE AT END OF HIGHT SHIFT	
5-17	PUT ON GROUND AND RUN 124.1 MILES BURING NIGHT SHIFT	
5-27	IN, 1/2", 1/2", CUTS TO CORO - SLIGHTLY FUZZY	
6-7	- TWO LANGE 2" CUTS - MULTIPLE SMALL CUTS - FUZZY CONDITION	

7-6 - FINAL INSPECTION: 3", 2" CUTS TO CORD AND MULTIPLE 1/2" TO 1-1/2" GUTS - ABRADED APPEANA

)	_ p.s.	1.	Tir•	Serial	40. <u> </u>	5N 40127			ada (1931 ^{ar})	Wheel.	No8	·	
,	HARDII (6 3 . Foin	lando#	CRG	ONN RADI	U S	AVq	1	S MIDUI	3	O. D.	DE no load height	FIECTION loaded height	% Def.
-	54 53	54	10-7/8	10-7/8	10-7/8	10-7/8	14-31/32	14-31/32	14-3V 3	43.04			ا هنتیسه ر بودی در
_													
_	52 52	50	11-3/8	11-3/8	11-3/8	11-3/8	15.4/32	15-4/32	15-4/32	43.65			
-	50 50	50	11-5/8	11-5/8	11-5/8	11-5/8	15-7/32	15-7/32	15-7/32	43.33			
L	54 54	52	11-7/8	11-7/8	11-7/8	11-7/8	15-9/32	15-9/32	15-9/32	43.23			
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<u> </u>	orneka	etc.	L					l	<u> </u>		l	 i	
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	IN BA	ISFAC TO		NON AF	TEN 6635.	4 миля	. .			17	J		
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Assign	ed Tire No.	·	6					Ti	ra 3124		8-20			•	
Init	ial Weight	179	.10					Ln	flation	Pres	anta	(0014)	36	p.s.	
173	.ml Weight	17	1,95	سن به رسس											
	Loss	-	7.15			B	GIE T	1RE						•	j
Odom Milas	Actual Milas	Date	1 Out	2 In	3 Out	4	on s on s	6	TION 7 Jut	8 In	9 Out	10 In	Avg Dapth	HARD: (& 3 Foin	
	o	3-22													
	0	3-23	.580	. 582	. 578	. 581	.!:31	. 588	. 581	, 525	.532	. 583	. 531	54 52)
	865	4-18	.528	. 530	.531	. 528	214	529	. 331	. 533	, 532	.530	. 531	53 52	
	2580.6	4-26	.447	. 445	. 438	.441	.450	435	.450	. 447	.449	.439	. 444		
	3 192. 5	4-28	.408	. 401	.403	. 405	.413	. 402	.412	. 414	.409	.400	.407	52 51	
	3720.6	5-2	.371	. 378	.378	.378	. 392	. 374	. 380	. 385	. 375	.372	. 378		
	4899.4	5-17	.327	. 330	. 344	.334	.334	. 342	.340	. 334	. 340	.330	. 328	53 54	
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REMAR	KS: - Note	miles,	e, dat	and	result	of in	spection	on for	cuts,	braak	3, 599	aratio:	n, whoel	l crucks	
	-1/2", 1",								,		-				
	-1/2", 1/					HNONGI	4 3 PLYS	. 1/2*	. 1/2".	1/2"	1/2*	. 1", 1/	/2", 1/2	1/2*,	
5~6	- HEMOVED	FROM T	KST - E	TILL H	7108 41										
5-17	- FINAL ME	ASUREM	ENTS:	1/2".	1/2*. 1/	/2". 1.	1/4". 1	n. 1/2	1. 1/21.	3/4	*. 1/2	1/21	. 14. 18	CUTY TO C	•
							***********				. 4	· ##			₽
THIS 1	TIRE RAN FIR	ny 123 n	AILES O	H ROGIE	S. THEN	мAн 7	42 MILE		TONT WH	 KKLS,	AND T	HEN HAN	REMAINE	NO MILES	i
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Yî	Tire	g er ial)	io. G	N 40130	•			What I	Na20	0		•	
p.s.i.									· · · · · · · · · · · · · · · · · · ·			•	*
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									, <u></u>		<u> </u>	•	
HARDIASS (6 3 Raidom		WN RADII	JS 3		1	S MTDIH	3	O. D.	DEP no load haight	LECTION Loaded height	Mer.		
Toints)	1	<u> </u>		AVS	15-3/32	15-3/32		43 47	narme	HATKIN	Der		
54 52 51	10-7/8	10-7/3	10-7/8	10-7/8	15-1/8							Þ	
5 3 52 53					15-13/32			,					
52 51 50	11-1/8	11-1/8	11-1/8	11-1/8	15-7/16	15-7/16	15-7/16	44,20				Þ	
53 54 55	11-3/8	11-3/8	11-3/8	11-3/8	15-7/16	15-7/16	15-7/16	44.0!					
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		L			<u> </u>		<u></u>	<u></u>					
rucks etc.					•								
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1/2", 1/2"	типочит	3 PLYS'	3/4", 1"	. TO 3 PL	v) [/2" то	2 PLYs / 1	/2" ON	16 CUT L	IG AT SHOUL	DEM, FUZZY	APPEARAN	ic.	

TS TO CORD A	ND NUMB	ENOUS MM	ALL CUTS	- SPIN CL	IT - PUZZY				and a distance of a second self-			•	
MILES ON BOS	125							4619Ani					
·			., _						<u>"</u>			•	

Init	ial Weight		6, 70 L	• •				Ir	flatio	n Pres	ozuce (cold)	30	p.:
M.	nal Weight		73.18											
	Loss		3.52			BOG	E TIRE							
Odom Miles	Actual Miles	Date	1 Out	2 [n	. 3 Out	THEAD LI In	DEPTH 5 Out	6	TION 7 Out	8 In	S Ont	10 In	Avg Depth	HARI (% Fo
	0	4-18	. 582	. 578	. 584	. 581	. 580	-580	.580	.580	. 577	.580	.530	54
	1047.7	5-11	.500	. 489	. 500	. 490	. 494	. 495	.500	.500	.494	-498	.496	
	2444.4	5-17	.424	. 415	424	.419	420	.417	. 424	. 427	. 417	,423	, 421	50
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REMARI	Sı - Note	ni leag	o, date	and:	resuli	t of in	spection	n for	cuts,	break	s, sec	aretio	n, whool	cruc
								•						
	5-17 - 1/	/2", 1/	2", v	υτ. I/	2", 1/	2" CU	rs to	CORD	– FUZ	ZY		<u></u>		
	THIS TIRE									ON 5-	4 AND	HT BAN	IN PUT BA	CK ON
	TIME PUT	ACK ON	GHOUND	WHEH	но, 3	FAILED (on 5.7	WITH 30	<u>)</u>	••		 		
···											· · · —			
	2468.7 M	. AT F	MLURE (N NIGH	T SHIP	т 5-17 -		u t						
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_		Tire	S rial	No. G	N 48235				Wheel !	Yu	5	
30	p.s.i.											
is otn	HARDIESS (6 3 Random foints)	CR 1	CWN RAD:	us 3	EVA	1	WIDIH	3	0. D.	DZZ no lozd halght	NOTTON Loadad thy ied	Z Zed
580 496	54 54 55	10-7/8	10-5/8	10-5/8	10.71	14-31/32	14 - 31/32	14-31/32	43.53			
421		11-1/8	11-1/8	11-3/8	11.21	15-9/32	15-9/32	15-9/32	43.98	10.719	8.719	18.5
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whee l	crucks stc.					e un sale						
	CK ON SPARE RA											
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Init	tal Weight	17	9,06	,	-			Ľ	Flatio	n Pro	saure	(cold)	36	p.:
j.	nal Weight	16	8.51										-	
	Loss	10	. 55				BOGIE	TIRE						
Odos Milas	Actual Miles	Date	1 Out	2 In	j Out		DEPTH 5	POSI 6	TION 7 Out	8 In	9 Out	10 In	Avg Depth	HAIL (6)
	0	3-22							1	رحضي			i i	
	0	3.23	, 594	. 592	. 590	. 591	.591	. 591	. 590	. 588	, 589	. 594	. 591	5
	2120,6	4 6	.464	. 463	.442	. 452	.460	. 459	. 462	459	.464	457	. 458	5
	2714.2	4 - 8	,424	. 424	423	· ·			†·			, 427	-	
	3307.8	4 12	,412	;		1			1			.400		
	4511.0	4-18	. 372	. 364	. 374	.366	. 365	. 365	.364	. 380	.368	. 370	. 369	5
	6226.6	4-26	 -		- -		*		-	·		. 291	*·	
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	<u> </u>		<u> </u>	ــــــــــــــــــــــــــــــــــــــ		<u> </u>	1	L		1	<u> </u>		<u> </u>	<u> </u>
REMAR	S: - Note	<u>mile</u> a	o, dat	e and	result	of in	spection	n for	cuts,	break	cs, 54	mratio	n, wheel	Lore
	44,25	OD w/	/38pg1	AT 2114	7,7 OD	0								
	4 6	wo 1, 2	II curs	TO COM	<u>u, 3/4</u>	CUT TO	comp l	* TO C	<u>оно, 1</u> ^н	TO CO	RO, 1/	2" ro c	ono, 3/.	4 T AND
	4 18	17, 1-	1/4" 1	-1/2"	<u>1/2"</u>	1/20 1/	2" ["	1/2"	1 3/4	<u>1/2 j</u>	/2 1/3	1 1/3/	4 1/2 1	<u> </u>
	4-26	627 0, 9	MILES	S AT FA	ILURE/	FAILU	E CAUS	KO BY	TOCK ON	EAK/	<u>-</u>			
							·		-		- • • • • • • • • • • • • • • • • • • •			
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Tire	Serial	Ho,	GN	40138	

Wheel	Ho.	33	

p.s.1

HARDINESS	CR	OWN RADI	US			WIDTH		C. D.		PIZCTION	4
(6 3 Random foints)	1	2	3	PAN	1	2	3		no load haight	lisaded haizht	ø Def.
					14-15/16	15	15	43.47			
50 51 52	10-5/8	10-5/8	10-5/8	10-5/8	15-1/16	15-3/32	15-3/32	43.72	10, 9375	0.03125	17.4
50 50 50	11 - 1/8	<u> - / B</u>	11-1/8	11-1/8	i5-5/16	15.5/16	15-5/16	44.22			
									11.156	9.3125	16.5
50 53 52	11-3/8	11-3/8	11-3/8	11-3/8	15-5/16	15-5/16	15-5/16	15-5/16			
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1/88 1/08 1/00	1 00 20 mm
	1/2", PUZZY BUT NOT AB BAD AS THE 11,00-20 TIRES. 1º 1/2 1-1/2 1-1/2 3/4 3/4 1/2 1/2 1/2 1/2 3/4 GUTS TO CORD
1- 1/2 3/4 1 1/2 1/2	10 1/2 1-1/2 3/4 3/4 1/2 1/2 1/2 3/4 curs to come
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	\ n

Init	ial Weight		180, 31					Ľ	n r la t ic	ופיול מ	sauro ((0014)	36	p.
P1.	nal Weight	,	169, 35										·	
	Loss	·	10,06			FF	ONT T	IRE						
Odoa Milas	Actual Miles	Date	1 Out	2 In	J Out	TREAD 4 In	DEITH 5 Out	P031 6 £n	KOIT!	8 In	9 Out	10 In	Avg Captn	EAH 2) 01
-	0	3-22							1					
	0	3-23	. 589	595	590	589	.587	. 589	. 588	. 585	.580	.538	.533	5
	2417. 4	4-6	.500	509	. 501	. 503	. 498	. 504	. 502	.499	.500	.502	.502	5
	3011.0	, !4-8	.490	498	, 485	.488	. 485	. 484	.480	. 484	.485	1.485	. 438	
••	3620.6	4-12	.480	484	481	482	. 480	. 480	.472	. 474	.470	.474	. 473	
	4807.8	4-18	. 456	469	. 465	. 460	. 460	. 457	. 454	. 433	.455	.483	. 482	- 5
	6523.4	4-26	. 427	422	. 423	419	. 416	. 417	. 412	.416	.403	.408	.417	
	7135. 3	4-28	. 399	. 402	.404	. 404	. 405	. 398	. 378	. 394	. 390	.400	. 397	
	7663.4	5-2	. 385	. 382	. 385	. 390	. 376	. 380	.376	.369	. 384	. 371	. 378	
6 ====	8842.2	5-6_	. 352	352	. 353	358	. 355	357	, 342	. 353	339	346	351	
0	8842.2	5-6			<u> </u>	<u> </u>	<u> </u>	\ \		! }	!	!		
0 -==	0, 035. 6	5-11	. 316	. 321	. 328	321	. 326	, 322	. 302	.307	.292	. 310	. 315	
					<u> </u>		<u> </u>	<u> </u>			<u>i</u>	<u> </u>	<u> </u>	
REMARI	4-18	/ <u>2". l</u> l", l/	/2", I 2", I/	/4" , 2", /2	<u>/4°.</u> 2° 1/2	1/2° c 1/23/	uts to	como. /2 1/2	∟10HT Р 1/2	UZZINK 1/2 1'	1/2	1/2 I,	/2 1/2 /4 1/2	3/4
	172.3	8	- 5-6 -	TIRE H	AD LOST	7, 93	LES IN 8	842,2	MILES					
	5-13	- LEAH	T 1114 81	нвооян	TREAD	CHACHE	- REMO		IOM TES	T AFTE	n 10, 57	4.8 MI	LEB OF B	ENVIC

Tire Serial No. GN 31314

Wheel No. 16

5 p.s.1.

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T	HARDMESS	CR	CIN RADI	.U3			WIDTH		0. D.		ZIZCTION .	
	(6 3 Randon Toints)	1	2	3	AVT	1	. 2	3		no load haight	loaded height	Daf.
						4-15/16	14 - 15/18	14-15/16	43,40			
	52 53 52	10_7/8	10.7/8	10-7/8	10-7/8	5.00	15.00	15.00	43,65	10,6875	9,0625	15.2
	51 52 52	0-7/8	11-1/8	10-5/8	10-7/8	15 -9/32	15-9/32	15-9/32	44.22			
1							<u></u>			11.0525	9, 3438	15.5
-	50 52 54	10-7/8	11-1/8	10-7/8	10. 958	15-1/4	15-1/4	15-1/4	44.11			
-	51 54 52	10-7/8	11-3/8	10-7/8	11.042	15-7/32	15-7/32	15-7/32	44.04			
+	52 50 51	10-7/8	11-3/8	11-3/8	11, 208	15-7/32	 5-7/32	15-7/32	43, 87			
1				<u> </u>	-		·	-	43.83			-
-			<u> </u>	-		 -	-					

al crucks etc.

3/4 3/																				
3/4 1/2	S 1 12	(vo 2	PLYS)	1/2	1"	1/2	1/2	3/4	(TG	2 PLYS) 1/2	(10 2	PLYS	3/4	1/2	1/2	1-1/4	1/2	1/2	CORD .
SENVICE												1	7	-	<u> </u>				<u> </u>	
			-										·			-				

Assigned	Tire	No.	10
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Tire Size 16-20

Initial Weight 182.11 : me

Inflation Pressure (cold) 36 p.s.:

First Weight 181.56 (AT THE 36 PR. TERT)

LOSS .55 FRONT TIRE 169, 33 LBS AT END 30 PS TES

		PEI TEST	1ND 30	. TA DM.	59, 33 c	10	TIRE	RONT		_		33	' 	1001	
	HAR (4 Io	AVg Depth	10 I n	9 Out	8 In	TION 7 Out	P03I 6 In	DEPTH 5 Out	TREAD 4 In	3 Out	2 In	1 Out	Date	Actual Miles	Odom Miles
53_	54	. 578	. 573	. 570	. 579	. 573	. 581	. 572	. 577	.573	. 582	, 575	5-4	0	
50	50	,541	. 544	.540	.546	. 542	.541	. 535	. 543	.534	.547	. 536	5.6	593.6	36 μαι
													5-6	593.6	30 pg;
		.499	.500	,50L	. 500	.,501_	, 497_	.499	. 505	. 486	, 504	500	5-11	1 787.0	
52	52	. 458	i	.468		ì		.459	1	!		. 459	5-17	3 183,7	
		. 440	. 447	. 450	. 433	.439	.439	. 442	.434	.427	. 443	, 445	5-19	3777.3	
		. 404	. 407	.410	. 393	. 408	. 393	. 406	. 400	.404	.410	. 412	5-23	4642.3	
		. 394	, 398	. 402	. 374	.389	. 378	. 400	. 396	.390	. 412	. 400	5-25	4892.7	~
53	52	. 379	. 378	. 385	. 360	. 388	. 369	. 389	. 380	.378	. 384	. 381	5-27	5457.0	
		337	. 340	. 345	. 320	. 325	. 334	, 336	335	.349	. 339	. 342	6-2	6781.0	
54	53	. 273	. 276	.271	. 265	.264	. 273	. 266	. 289	.264	. 286	. 273	6-7	8257.6	
		. 265	. 267	.266	. 256	.251	. 270	. 265	. 271	. 255	. 274	. 268	6-9	8810.4	
54	54	, 232	. 239	.250	. 234	.235	. 232	. 222	. 230	.222	. 230	. 226	7-6	9546.6	

REMARKS: - Note mileage, date and result of inspection for cuts, breaks, separation, wheel crucks

THIS TIME PUT ON M. F. DURING	ROTATION AT NOON 5-4 - INFLATED TO 36 P.	31/ AT NOON 5-6, IT STARTED 30 P .
WEIGHT 181,56 LES ON 5-6		

5.17 - 1/2" CUT TO CORD - FUZZY - TWO CROSS CUTS - SHALLOW

5-27 - 1/2", 1/2", 1/2", 1/2", 1/2" choss dut 3". 1" duts to comb - (choss dut is not to comb)
6-7 - duppind, 1", 1/2", 1, 2", 1, 2", 1", 1/2", 1/2", 1-1/4", 1/2", 3/4", 3/4", 1" duts to comb,

1/2", 1", 1/2", 1/2" duts to comb - Fuzzy

6.13 YERT TERMINATED REGAUSE OF MECHANICAL FAILURE OF TRUCK - TIRE HOLDS AIR AND IS IN SATISFIACT

1", 1/2", 1, 2", 1, 2", 1, 2", 1, 1, 4", 2", 1/2", 1/2", 1", 1, 2", 1/2", 1", 3, 4", 1/2", 1/2", 1, 2", 1, 1/2", 1/2", 1

Į	HARDIESS		CWN ICADI	เขร	·	T	MIDIH		0. D.	DE	LECT ION	
	(6) Razdon (sinto]	1	2	3	AVg	. 1	2	3		no loud height	loadad holight	% Def
	54 55 54	11-1/8	11-1/8	11-1/8	11-1/8	15-1/4	15-1/4	15-1/4	44.07			
_	50 50 50	10-7/8	10-7/8	10-7/8	10.873	15-9/32	15-9/32	15-9/32	44.33			
			; 				<u> </u>		44.25			
		<u></u>	<u> </u>	<u> </u>		ļ						<u> </u>
	52 52 52	0-7/8	10-5/8	10-5/8	10.708	15-1/4	15-1/4	15-1/4	44, 14	10. 9375	9, 09375	16.9_
_		<u>.</u>	1	ļ	ļ	<u> </u>	.,					
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_	52 53 52	10-5/8	10-5/8	11-7/8	10.71	15-1/4	15-1/4	15-1/4	43.95			i
								<u> </u>		10.8125	9.0625	16,2
	53 54 54	11-1/8	10-7/8	10-7/8	10.96	15-5/16	15-5/16	15-5/16	43,80	ļ		; -
			·	-	·		<u> </u>			<u></u>		-
_	54 54 54	11-1/8	11-1/8	11-1/8	11.125	15-1/4	15-3/8	15-3/8	43.69			<u> </u>
	erucks etc.	ENATION.										
	CORO							-		- At-		
	TO CONU. 2" 8	DE CUT.								_\\\		

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	ed Tiro No. imi Weight		4						ro Siz Tlatic			(cold)	30	p .s .
K 1	mi weight	160	1 69		_									•
	Loss	2(J. 38			. E	OGIE '	TIRE						,
dom	Actual Milse	Date	1 Out	2 In	j Out	TREAD 4 In	DEPTH 5 Out	F031 6 In	TION 7 Out	8 1n	9 Out	. 10 In	Avg Doptn	HARDIC (6 3 ! (61n
	0	5-6	, 600	. 600	, 5 98	. 599	. 596	. 597	. 598	. 595	.597	. 601	.598	52 53
	1193.4	5-11	. 486	. 490	.479	.484	. 483	. 480	. 487	. 477	. 435	. 484	.484	
	2886.9	5-19	.400	.389	.388	. 385	. 395	. 388	. 388	. 381	. 387	. 398	. 390	<u> </u>
	36 16, 9	5-23	. 370	. 365	. 357	359	. 362	. 360	352	. 356	352	. 370	. 361	<u></u>
-	4 164. 1	5-25	. 341	. 341	.338	. 338	. 339	. 335	. 331	. 331	, 335	. 340	. 337	
	4728.4	527	. 320	. 319	.315	. 309	. 318	. 314	. 315	. 313	.316	. 321	. 315	54 53
	6052.4	6-2	,247	. 265	.243	. 251	.234	. 252	1.245	.244	. 245	. 260	.249	
·	7529.0	6-7	. 165	. 173	. 150	. 159	. 131	. 168	. 143	. 148	. 159	. 185	. 168	52 54
	8081.1	6-9	. 135_	.130	. 130	. 132	. 151	. 130	146	.118	. 155	. 162	. 139	
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REMARI	<u> 5-6 - Meta</u>		e, dau	MEDIAT	result	of in	uspection	on for	cuts,	break	s, ser	mentic	n, whoe	l cracks
	5-27 - MA	NY BMA	LL 1/2°	то !"	CUTS	AND OH	r v cur	IN CEN	TER - 8	OMEW	IAT FUE	24 APPI	:ARANGE	******
	6-7 - ON	F LANGE	2" cu	T MU	LTIPLK	SMALI.	curs -	#UZZY						
														
-	TIME FAILE	D FROM	MOCK W	REAK OF	MOHN	ina or	610 Ar	ren 834	14,4 mi	LK# OF	SKHVIC	: K		

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Tire Serial No. GN 49329

Minel No. 21

30 p.s.i.

	ILARD. 255	CRO	WN RADI	U 3			MIDIN		0. D.	DEA no losa	LECTION	ĭ
g pt::	(6 3 Naudom)	1	2	3	AVR	1	2	3		hoight	height	Def.
98	52 53 52	10 - 7/8	11-1/8	11-1/8	11.04	14 31/32	14-31/32	14-31/3	43.35			
4				} •	1							
0					· 	1	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			11. 125	9.1875	17.4
1		10						•				
7								•				
6	54 53 53	11-1/8	11-1/8	11-1/8	11-1/8	15 5/32	15-5/32	15-5/3	43.70			
9								i .		10.875	8.9375	17. 8
8	52 54 52	11-3/8	11-3/8	11-3/8	11-3/8	15-7/32	15-7/32	. 15- <u>7</u> / 3	43.36			· •
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	ed Tiro No iul Weight								re Siz			· 1 4 \	36	. • •
	nal Weight							11	Wlatic	n Pro	ssure	(00M)		p.s.i.
	ادوما					R	OGIE T	'IRE						
	Actual	Date	1	2	3	TREAD 4	DEPT 5	4 17031 6	TION 7	8	9	10	BVR	iurdies (6 3 R.L.
5	Miles	3-22	Out	In	Out	In	Out	In	Out	In	Out	In	Depth 	Foints
	0	3-23	. 590	. 592	588	.590	594	. 592	. 595	.596	.591	.596	.592	52 52 5. D
	24 17. 4	4-6	. 450	. 428	452	.444	462	. 442			,442	i	T	49 49 4.
	3011.0	4-8	. 420	. 414	417_	404	424	. 422	.425	.408	. 412	.412	. 413	
	3620.6	4-12	. 406	. 380	402	1,410	411	. 385	. 400	.394	. 392	. 394	.398	D
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RH	<u> 44,29 0.0</u>						specu	on for	outs,	brank	3, 30	eratio	n, whoel	L crucks 7
	44, 23 0, 5				, 55.									
	4-6 - 1/	2", 1/2	1/2	", 1 /2'	', " c	UTB 70	COND -	PUNNY	NUT NO	Y AS 8/	O As 11	.00 - 2	.0.	
-		·												
	FAILURE D	URING N	IGHT SH	irt 4-1	5 - YIP	A HVD r	AHOE B	PIKE IN	IT MUT	IT 0101	O'T PEN	ETMATE	LEAK API	PARENTLY C
-				 -			SUNSK							

Tire Serial No. GN 32842

Winel No. 2

p.s,1.

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۱ ٔ			ESS Raid	0.00	CH	CWN RAD:	.03			WIDTH		O. D.	no load	LECTION Loaded	1
		oi n)	1	2	3	AVR	1	2	3		hoight	height	Def.
								\ \	15-1/32	15-1/32	15 1/32	43.50		ا حصر دید	
1	52	52	53		10-5/8	10-7/8	10-5/8	10.703	15-5/32	15-1/8	15-1/8	43.8	11.00	9,0312	17. 9
	49	49	49		11-1/8	11-3/8	11-3/8	11.292	15 - 3/8	15-3/8	15-3/8	44.30			
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a -		· · · ·				:		<u> </u>			! 		11, 625	9, 6875	16.7
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crucks etc.	
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Control of the state of the sta	
and the second of the second o	AFCE
PARKNTLY CAUSED BY CUT - TIRE HAM PLAT AND WAS DAMAGED. FAILED APTE	TOTAL 4300 MI/
the control of the co	[-7]/-
NOT ON CROSS-COUNTRY COURSE 4566 TOTAL MILES AT FAILURE	

_	d Tire No							Ti	r e 31 2	<u>.</u>	16	20		•
	al Weight							Ţ	nflati	on Pro	saura	(cold)	35	_ p.s.
Fir	nal Weight													
	loss		9,17			В	OGIE 1	TIRE	-					
Odon Milas	Actual Miles	Date	1 Out	2 In	3 Out	TREAD 4 In	DEPTH 5 Out	P031 6 In	TION 7 Out	8 In	9 Out	10 In	AVg Depth	HARD! D (6 3 Foin
2 1147. 7	0	3-31	.604	. 605	. 602	. 605	.601	. 605	. 603	. 605	.606	.602	. 604	50
	843.4	4-B	, 527	. 523	. 526	. 526	.525	.528	. 524	. 530	. 525	.524	. 523	
	1436.9	4-12	.498	. 494	. 498	. 496	,493	.497	. 492	. 496	. 494	.498	. 495	
	2640,2	4-18	.455	. 453		.457	.452	.460	. 453	. 455	.458	.451	· 455	50
	4059, 0	4-26	.393	. 394	•	. 388	.389	.340	. 386	394	.385	.373	. 385	
	4670. 9	4-28	.370	. 366	. 370	.371	.361	. 355	. 365	. 360	.362	. 355	.384	•
	5785. 1	5-17	.325	. 314	. 317	. 311	.320	. 310	. 309	. 301	.300	3C3	. 311	5:
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														HO REPAI
<u> </u>												TO COME		
<u> </u>								/2 1/4		HER L	<u> </u>	, 1/2 1,	/2 1/2	1/2 1/
	5-17	MULTI	rcr 1/2	70 1	- 1, 4 -	CUTS -	FUXXY							
	AFTE	5785.	I MILLE	OF 888	VICE T	HIS TIME	WAS R	EWOARE) IN BA	TIBFAC	ONY CO	INDITION	TO STAR	T A NEW

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	Tire	Serial	do(GN 40154				Wheel	po6			•	(4)
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Tire	Serial	no.	GN 10045	
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Wheel No. 29

36 p.s.1

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	3011.0	4 - 8	. 480	. 486	. 477	482	. 485	. 482	. 485	. 480	. 482	.488	.483
	3620, 6	4 - 12	. 460	. 480	. 474	475	. 458	. 476	. 468	. 472	.452	. 476	471
	4065.8	4-18	. 450	. 456	. 461	450	.470	. 489	. 460	. 459	.448	.469	.460
	5781,4	4-26	.417	. 438	. 420	. 439	.423	439	.436	429	.428	1.427	.429
	6393.3	4-28	.404	. 414	398	. 415	. 420	.405	425	.408	.408	. 409	. 411
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	2390.4	4-12	.447	.432	.460	. 442	. 452	. 444	.454	. 438	. 455	.430	.446	
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Wheel No. 24

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Assigned fire No.	. 18	Tire Size 16 20	
Initial Weight	181, 22	Inflation Pressurs (cold)p	*
Final Weight	168, 95		

. <b>,</b>							IRE	RONT T	F			12,27		Loss	
	٨. ٤) 1	Avg Depth	10 [n	9 Out	8 In	TION 7 Out	rosi 6 In	DKPTH 5 Out	TREAD 4 In	3 Out	2 In	l Out	Date	Actual Miles	Odom Milas
		. 602	, 605	.602	. 604	. 602	, 604	, 600_	. 605	. 800	, 602	. 600	4-8	0	
5		. 568	. 570	. 584	. 572	.568	. 570	. 566	. 568	. 506	.568	. 567	4-18	296, 8	
		.529	. 527	.528	.530	. 530	.530	. 527	. 535	. 530	. 528	. 528	5-2	789.4	
5		<b>,4</b> 93	. 489	.494	.495	. 490	.493	.492	. 495	. 495	. 492	. 496	5 17	2 192, 2	
		.476	. 475	. 471	.480_	471	.480	. 475	.477	. 473	. 476	. 478	5-19	2785, 8	
		.450	. 440	.451	.452	.447	. 452	. 451	. 455	. 455	.446	. 452	5-23	3650, 8	
_		. 426	. 415	. 430	.431	<u>, 429</u>	.422	. 432	. 419	. 432	.419	. 430	5-25	4 198, 0	
52		.404	. 403	. 414	410	. 410	.408	. 388	. 399	. 408	. 394	. 401	5-27	4762.3	<del></del>
		. 360	. 368	. 338	. 373	352	. 364	. 362	. 364	. 364	. 360	, 354	6-2	6086.3	
51		. 310	. 312	. 316	1.324	304	. 312	. 311	. 312	. 304	. 300	. 300	6-7	7562.9	
		. 298	. 295	. 300	.311	. 292	. 296	. 288	. 308	. 300	.296	. 290	6-9	8115.7	
53		. 261	. 266	. 253	.280	.256	. 267	. 250	. 275	. 244	. 275	. 245	7-6	885 1. 9	
				l	<u>i</u>	1	i			1					

	1/2" 1", guts to some
5-17	1/2", 1", 1/2" cuts to cord with some long cuts in thead which ark shallow in Depth
5-27	1/2", 1/2", 1/2", 1-1/4", 3/4", 1/2", 3/4", 3/4", 1/2", 1" CUTB TO CORD. LARGE SHALLOW S
6-7	I", I", 1", 1/2", 1/2", I" (CHOSSWAYS) I", 3/4", I", I", 1/2", I", I", I/2", 1/2", 1/2", 1/2", 1/2
	TIME MAN 1334, 7 MILES ON BOOKES WITH 36 PEI, THEN STARTED RUNNING ON FRONT WITH 30 PEI ON NIC
6-13	TEST TERMINATED BEGAUSE CT MECHANICAL FAILURE OF THUCK - TIRE HOLDS AIR AND IS IN SATISFACTO
	1", 1", 1-1/4", 1-1/4", 1", 1", 1", 3/4", 1/2", 1" GUTS TO COND, SHALLOW GROSS GUT, SHALLOW

Tire	Serial	No.	CN 40143

Wheel No. 3

	HARDIASS	CR	OWN HAD!	US		ותמוש			O. D.		LECT TON	er e
1	(6 3 Random [oints ]	1	2	3	AVE	1	2	3		no load halaht	loaded haight	g Def.
	52_54_54	11 ,1,4,8,	11-1/8	11.1/8	[I_I, 8	15-1/16	[5. 1/16]	15 1/16	43_19			سكارات شقل
	53 50 50	11-3/8	11-3/8	11-3/8	11-3/8	15-5/16	15-5/16	15-5/16	43.87			
	53 53 52	11-1/8	10-7/8	11-1/8	11.04	15-9/32	<u>15-9/32</u>	15-9/32	43.76			
			·									
-	52 52 52	11-1/8	11-1/8	11-3/8	11.21	15-1/4	15-1/4	15-1/4	43.59			
	51 51 50	11-3/8	11.3/8	11-3/8	11-3/8	(5 <u>-9/32</u>	<b>15-9/32</b>	15-9/32	43.41			
	53 55 53	11-3/8	11-3/8	11-3/8	11-3/8	15-1/4	15-I/4	15-1/4	43.10			

1	
HALLOW SPIN CUT	
/2", 1/2; 1/2", 1", 1/2", 1/2", 3/4", 1", 1", 1" cuts to come - cum	alka
181 ON NIGHT SHIFT 5-13	
ATIBEACTORY CONDITION AFTER A TOTAL OF 8851. 9 MILES	
SHALLOW SIDE SPIN CUT, [7, 14, 14, 14 GUTS TO COND - CUPPED	

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Init	tal Voight	21	4,92					Ľ	oflati	on Pre	saure	(00ld)	45	p.a.
W	cal Weight	(DAI	MAGEO)											
	Loss					В	OGIE T	IRE						
Odom Milse	Actual Miles	Date	l	2 In	j Out	4	DEPTH 5 Cut	6	7	8 In	9 <b>0</b> ut	10 In	Avg Daoth	illind: (& 3 Poli
	0	3-22												
	0	3-23	. 600	.610	.612	610	. 610	.610	. 612	.613	.610	. 508	.610	52 5
<u></u> -	2417.4	4-6	. 378	. 372	. 391	394	.400	.382	. 398	.384	.405	.375	. 388	50 5
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RSMAR			THROUGH										n, Wheel	
												الكاف	, A.	
			OF SERV		nAm,v	DAMAGE	PACIN'S	APPAHL	N1LY #	UNNIKG	LAT	ALLE	ON APRIL	. 6 pun
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Tire Serial No. XA 45993 Wheel No. p.s.1. CROWN RADIUS 0. D. DEPLICATION DO LOS OF HARDNESS WIDTH (# 3 Random Foints AVT 2 height Dof. 11 7/16 11 7/16 11 7/16 42.7 8.3/8 8 1/8 8 -1 / 8 8.208 11-9/16 11.1/2 11-9/16 42.83 9.750 8.375 52 50 52 14.1 10-3/8 10-3/8 10-3/8 10.375 11-25/32 11-13/16 11-13/16 42.83 50 50 51 mel crucks etc. TO CORD, 18 THROUGH THREE LAVERS, 3/4" THROUGH 3 LAVERS 2 MORE 1/2" CUTS TO CORD, THE VERY FUZZY APPEARANCE PHIL 6 DURING HIGHT SHIFT.

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Tred &d	ed Tire No Lal Weight											00 20	45	
	mal Weight				_			44	T77.27	2 /3-84	SUTA	(4010)	45	p.a.
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			1			TREAD	GIE TI	RE POSI	TION			<del></del>		HARD)
ios Llos	Actual Milos	Date	oue	2 In	3 Out	lı In	5 Out	6 In	7 Out	8 In	9 Out	10 In	Avg Depth	(& 3 : Foin
	0	3-22												
	0	3-23	. 632	.622	.628	, 628	.632	. 625	.627	. 632	.628	.625	.628	55 5
	2714.4	4-6	. 442	. 400	. 405	.390	. 425	. 432	.428	.422	.425	.386	.416	52 5
~	3011.0	4-8	. 378	, 344	. 385	.345	.388	. 354	.370	.338	. 378	.332	.359	
	3620.6	4-12	.340	.293	. 326	.295	.334	. 308	.317	.291	. 348	.298	.315	•
	4807.8	4-18	.280	, 272	. 258	.271	.274	.259	.284	.259	.255	.246	.265	50 50
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HARDINASS (6 3 Random	ca	WN RADI	ııı	•		MIDIN		0. D.	no load	7LTCTION	3
Foints )	1	2	3	YVA	1	2	3		haloht	haint	Dof.
					11 1/2	11 15/32	11-1/2	42.5			
55 55 55	8-3/8	8-3/8	8-3/B	8, 375	11-9/16	11-9/16	11 - 9/ 16	42,64	9, 6875	7.90625	18.4
52 53 51	10-3/8	10.3/8	103/8	10.375	JI- 25/32	11-25/32	11-25/3	2 42, 60			
	ļ					<u> </u>			9. 59375	8, 03125	16.3
50 50 50	10-7/8	11-3/8	11-3/8	11.21	11-25/32	11-25/32	11-25/3	42.28			
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crucks etc.

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_	od Tire No iel Weight	· · · · · · · · · · · · · · · · · · ·	32						re Gla				, e	
	•				<i>p</i> ~~			11	m treio	n Pres	aurs.	(0014)	45	_ p.1.
n.	nal Weight									•				
	Los	<u> </u>	14,80				GIE TII					•		
iom Lles	Actual Milse	Date	1 Out		out	4	DEPTH 5 Out	1031 6 In	7	8 I n	9 Out	10 In	Avg Depth	HARDI (w 3 Foin
	0	3 22				<u> </u>			 			]		
	0	3-23	, 624	. 616	.618	.617	. 618	618	. 622	.618	. 621	. 616	.619	52 50
	2190.0	4-6	.399	. 404	. 391	. 395	. 414	. 391	. 404	.395	. 402	. 400	,400	52 5
	2783.6	4 8	.348	. 351	.354	349	. 360	, 349	. 365	.344	. 360	. 334	. 352	
	3393.2	4-12	.332	. 323	,330	309	. 338	. 310	.328	.315	.323	. 312	. 322	
4 <del></del>	4580.4	4-18	.266	.266	. 261	,245	. 280	.251	. 261	.260	.240	. 271	.260	50 51
	6356.0	5-18	. 151	. 141	. 119	. 130	. 151	. 108	. [2 <u>5</u>	.114	, 141	. 118	, 130	53 55
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		1/2"												
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Tire Serial No. 3N 35195

Wheel No._____

5 p.s.1

HARDIESS.	CRC	WN RADI	eu			MIDTH	ļ	0. D.	ับลัก	/LICTION	_
(+ 3 Random Foints )	1	2	3	AVS		2	3	··	no load hoisht	loaded helyht	≸ Deĭ
	,				11-1/2	11-1/2	11-15/32	42.67			
52 53 52	8-5/8	8-5/8	8-7/8	8.708	11~19/32	11.19/32	11-19/3	42,80	9.6875	7.90625	18.4
52 50 52	10-5/8	10-7/8	10-5/8	10. 708	11-25/32	11-25/32	11-25/3	42.83			
			ļ						9.65625	8. 1875	15, 2
50 51 49	10-7/8	10-7/8	10-7/8	10-7/8	11-3/16	11-3/16	11-3/16	42.41			
53 55 55	11-7/8	11-7/8	11-7/8	1-7/8	11-25/32	11-25/32	11-25/32	42.10			
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el crucks etc.	
18870, 2 MILES - IT MISSED 227, 8 MILES	
IPPED DEFT 6356. Q MILES WHEN REMOVED PROP. TEL	T- WORM OUT.
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Assign	ed Tire No	·	3	3				Ti.	re Siz	•	11.00 2	0		
Init	isl Weigh!	·	215.	00				I	flatio	n Pres	ezue	(cold)	45	p.s.,
Pl	nel Weight	·												
	Load	·				ВС	SIE TI	RE						
Odom Miles	Actual Miles	Date	1 oue	2 In	3 Out	TREAD 4 In	DEPTH 5 Out	6	7	8 In	9 Out	10 In	AV3 Depth	HARD:
-	0	3-22								<del></del>	·		:	
	0	3 - 23	. 619	. 615	.618	.618	.618	.620	.619	.616	,622	615	.618	54 5
	2417.4	4-6	. 398	.408	.408	409	.411	. 407	.419	.422	.400	.401	. 409	50 5
	! ; 30!!.0	4 -8	, 350	. 366	. 371	. 365	.370	. 369	.385	.364	.364	. 368	. 367	
	7 ; 3620.6	4 -12	. 323	.357	•	1	,330		Ţ- · ·		•	•	. 337	52 5
	4807.8	4-18	. 256	.287	.297	.294	.294	.293	.303	. 289	.278	.288	. 289	
	6 583.4	4-26	. 174	. 189	. 210	. 1 93	. 173	. 187	. 183	. 182	.188	. 184	. 186	
	7195.3	4-28	. 168	. 174	j <b>. 174</b>	. 160	. 165	. 178	. 166	.158	. 170	. 170	. 168	50 5
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REMARI	Si - Nota							n for	cuts,	break			n, wheel	
	4-18	NUMERO	SLOA BUC	-	UTS AS	out 1/4	" TO I	-1/2*	WITH A	MERANIC	H AND I	MALL	HIPS OUT	OF TRI
	4 28	NUMERO	US CUT	- VP 7	A LOST.	AND A	SPACED.							
	PAILE	O AFTER	7228.7	MILES	-	VICE ON	THE NIC	HT BH	FT ON 4	4-28-6	0	<b></b>		
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HARDIESS		CMN RYDI	.US			MIDTH		O. D.	DEFIZETIO		
(6 ) Random [oints )	1	2	3	AVG	1	2	3		no load haight	loadad hoight	5 Def
				1_	11-1/2	11-13/32	11-13/3	42.67			
54 55 55	8-7/8	8-7/8	8.7/8	8.875	11-1/2	11-1/2	11-1/2	42.80	9, 9375	8.2187	17.3
50 51 50	105/8	10-5/8	10-5/8	10,625	11-25/32	11 -25/32	11 - 25/32	42.80			
52 52 53									9. 812	8, 281	15.6
	10-5/8	10-5/3	11-1/8		81-13/16	11-13/16	11-13/16	42.55			
50 50 51	11-3/8	11-3/8	11-3/8	1-3/8	11-25/32	11-25/32	11-25/2	2 42,30			
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11,00 20 34 Tire Size Assigned Tire No. 209,42 Initial Weight Inflation Pressure (sold) 45 193.25 Final Weight 16.17 Loss FRONT TIRE TREAD DEPTH POSITION HARD 8 10 Odom Actual 6 AVE Date (6 3 Kilee In Ιn Depth Mi lea Out Out 501 0 3 22 609 .610 .609 .610 . 606 .. 610 . 605 .609 0 3.23 . 610 . 609 . 610 .472 . 471 .469 1.88005 2417.4 4 6 480 .470 .468 . 471 .466 .472 .471 52 3011.0 4-8 . 451 . 439 .436 . 445 . 438 . 445 441 . 444 . 442 . 434 . 419 .419 ' .444 3620.6 . 432 425 .428 4-12 1.429 .426 14807.8 392 4-18 .40B .400 |.397 |.392 .398 .402 325 6583.4 4-26 . 312 310 .318 .310 .300 .344 .315 7195.3 4-28 300 . 284 . 286 . 300 7723.4 5.2 262 . 250 . 259 .278 . 244 .269 .254 . 253 . 205 . 226 8902.2 5-6 . 226 208 . 225 .226 , .205 .235 '.221 5-9 217 . 196 206 210 1,192 . 215 . 203 . 206 . 200 . 210 .206 50 9480.4 5-11 175 180 178 . 164 10095.6 . 172 1.182 1492.3 5-17 121 110 112 133 , 112 132 . 122 116 . 109 .128 120 54 . 091 120 . 118 094 . 103 . 111 12085.3 6 22 . 116 . 124 . 110 . 113 55 breaks, separation, wheel crucks REMARKS: - Note milmage, date and result of inspection for cuts, 3/4 cut in center to come. 1/2 x 1/2 cut to come. 3/4 cut to come, 1/2" cut to come, ti b 4-18 1/2, 1, 1/2 1/2, 3/4, 1-1/4, 1", 1/2, 3/4, 3/4, 3/4, 3/4, 3/4, 3/4, 1/2, 3/4, 1/2, 3/4, 4-28 NUMBEROUS CUTS 1/4" TO 1" WITH ABRABION. MANY CUTS 1/4" TO 1-1/2" 5-9 5-17 VERY PUZZY

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Tire Serial No. XA 45255

Wheel Bo.

p.s.1.

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	HARDIESS (6 ] Random	CR	OWN RADI	บร			WIDTH		0. D.	D33	\$	
1	[cints]	1	2	3	AVq	1	2	3		haicht	leadad height	Def.
٦						11 13/32	11-13/32	11-13/3	42,60			
7	55 55 55	8 - 7/8	8-7/8	8-7/8	8.875	11-1/2	11-1/2	11-1/2	42,76	9.6875	8, 3125	14.2
1	52 52 55	97/8	9.7/8	9-7/8	9,875	11-23/32	11-23/32	11-23/3	42.86			
-			<u> </u>				<del></del>		42.70	9.719	8,281	14.8
	53 53 53	9-7/2	9_7/8	9-7/8	9-7/8	11-23/32	_11-23/32	11-23/3	2			
-	54 54 54	10-3/8	10-1/8	10-3/8	10.29	11-3/4	11-3/4	11-3/4	42.50			
	50 50 51	10-7/	8 10-3/8	10-3/8	10, 54	11-3/4	11-3/4	11-3/4	42.28			
	54 54 54	10-3/	8 10-7/8	10-7/8	10.71	11-11/16		11-11/16	42, 12	9.406	8, 00	14.9

55 56 57 | |-1/8 | |-1/8 | ||-1/8 | ||-1/8 | ||-3/4 | ||-3/4 | ||-3/4 | 42.05

S CORD, TIRE HAS FUZZY APPEARANCE TO TREAD FROM ABRASION	
1/2, 3/4, 1/2, 1, INCH CUTS TO CORD/	•
•	
- ABOUT 1/2" x 3/4"	`
ISM SEVERAL LAYERS OF CORD - MULTITUDE OF SMALL CUTS - VERY FUZZY APPRARANCE	
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11,00 20 35 Tire Size Assigned Tire No. 217.88 Initial Weight Inflation Pressure (gold) 45 201.87 Final Weight 16.01 BOGIE TIRE TREAD DEITH TOSTITION HAIL 8 10 Actual 1 AVK Odom (6.3 Hilos Out Out Ln out Out ın Miles In ioi .616 .621 3 2 3 .618 | .616 | .61B .622 | .618 | .618 | .622 | .615 | .618 .532 .544 .535 .542 .529 .537 .528 792.9 .485 .475 .483 .480 .490 .477 .493 .478 .489 .470 1402.5 2589.7 .412 .398 .409 .388 .411 .393 .425 .403 .412 .396 .405 4-18 .295 .267 .285 .264 .275 .260 .292 .287 .278 .278 4365.3 4-26 .265 .249 .260 .259 .252 .241 .280 .280 .258 .253 .260 4977.2 4-28 52 5-2 .224 .217 .218 .210 .221 .204 .236 .225 .226 .213 ,219 .180 .196 .174 .182 .174 .172 .170 .181 .205 .170 .185 7262.3 5-9 1.139 .158 .130 .164 .149 .158 .146 .149 .158 | .137 | .147 . 115 . 105 . . 095 . . 101 . . 120 . . 106 . . 141 . . 104 . . 104 . 116 7877.5 5-11 8383.8 .092 | .080 | .085 | .089 | .104 | .083 | .115 | .102 | .108 | .097 | .095 REMARKS: - Note mileage, date and result of inspection for cuts, breaks, separation, wheel crack 4-18 3/4", 1/2" 1/2", 1", 3/4", (SMALL CHIP IN LUG) CUTS TO CORD 4-28 NUMEROUS GUTS 1/4" TO 1" - PUZZY

Tire Serial No. XA 45260

Wheel No.

p.s.1.

4	T	HARDINGS (E 3 Random	CRC	WN RADII	US.			HTDIW		0. D.	DEI no load	LECTION Loaded	\$
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		52 50 52									9.844	8.156	17.1
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<b>4</b> 3												,	×
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5		55 53 54	11-7/8	11-7/8	11-7/8	11-7/8	11-9/16	!1-19/32	11-19/32	41.80	, ,		ļ
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Lunigra	ed Tire No	·	36					Ti.	re Size		1	1,00 20		
Inte	ial Weight	2	13,20					In	dlation	Pres	sur <b>e</b>	(cold)	45	p.s.
<b>F</b> i.	nal Weight		98,50											
	Loss		14.70			FRO	NT TIE	e.	•					
	<del></del>		1	<del></del>		TREAD	DEPTH		TION			· · · · · · · · · · · · · · · · · · ·		HARD:
Odom Miles	Actual Miles	Date	1 Out	2 In	Out	ų In	5 Out	6 In	7 Out	g In	9 Out	10 In	Avg Dapth	(6.3 Foir
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	7575.0	5-2	. 305	<b>313</b>	. 301	.316	. 308	. 315	.299	.310	.307	.315	. 309	
	8753.8	5-6	. 278	. 266	. 276	. 278	. 276	. 288	. 273	. 284	_ 285	. 287	. 279	
	9332.0	5-9	. 258	. 262	. 254	.274	.272	.268	. 250	.262	. 256	. 266	. 262	54
	9798.8	5-11	.230	_230	234	.238	.245	.246	. 239	. 246	. 237	. 250	.240	
	11 195.5	5-17	. 184	- 180	. 176	. 193	. 195	. 202	. 192	.210	. 180	. 202	.191	54
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Tire Sarial No. GN 38757 Wheel Bo. 45 p.s.1. CROWN HADIUS HARDSESS WIDTH 0. D. DEFLECTION DO load loaded (& 3 Random 2 hoight Daf. epth loints TVA 3 haight 11 1/2 11-1/2 11-1/2 42.5 9-3,8 9.3 8 9.3,8 9.375 11-9/16 11 9/16 618 52 53 54 11.9/16 42.7 9.6875 8,250 14.8 10-1/8 10-1/8 10-1/8 50 50 51 10.125 497 11-25/32 11-25/32 11-25/32 42.84 465 452 9.688 8.406 13.2 50 52 52 9-7/8 10-1/8 9-7/8 119 52 52 50 10-3/8 10-3/8 10-3/8 10-3/8 11-27/32 11-27/32 11-23/32 42.51 352 309 !79 10-7/8 10-7/8 10-5/8 10.79 11-3/4 11-3/4 11-3/4 :62 54 54 54 :40 11-25/32 11-25/32 11-25/32 42.25 9.469 19 10-7/8 10-7, 8 10-7/8 10-7/8 8.125 54 55 55 73 11-27/32 11-27/3211-25/32 42.09 11-1/8 11-1/8 11-1/8 11-1/8 49 55 55 54 theel crucks etc.

, 3/4" CUTS TO CORD

18.1 MILES AND WAS WORN DUY

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	d Tire No.													
	al Weight							I	l'Inti-	on Pres	sure	<b>(</b> col4)	45	p.s.
<b>1,71</b>	ul Weight			·										
	Loss					FR	T TAO	IRE						
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dou Llas	Actual Milse	Date	Out	In_	Out	in_	Out	In	Out	In	Out	10 [n	Avg Dopth	(6 3 101n
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RSMARI	Sı - Note	milea	s, dat	a and	result	of in	specti	on for	cuts,	break	s, se	mratio	n, whoe	l cruck
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<u>45</u>	p.s.1.	Tire	Serial	Bo.	XA 45284	<del></del>			Wheel ;	io			Þ
g pta	HARD'ESS (* 3 Random loints )	CR 1	CHN RAD	103	AVg	1	WIDTH 2	3	0. D.	DEN no load haizht	LICTION loaded haight	\$ Def.	•
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TREAD   DEPTH   POSITION	In Dapth  22   G21	(6 3 Fr-1r
Actual Date   1 2 3 4 5 6 7 8 9	In Dapth  22   G21	(6 3 Fr-1r
0 4-8 853.6 4-26 .494 .484 .489 .479 .490 .484 .495 .489 .504 .4 1465.5 4-28 .484 .466 .472 .462 .475 .465 .487 .472 .490 .4	• • • • • • •	<u>5</u> 2
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### Unscheduled Tirs Maintenance, 16-20 Tires

(Test started with Nos. 9 and 15 fronts, Nos. 8, 12, 14 and 17 on bogies)

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Truck No.	Tire No.	Maintenance or Changes
12	17	Failure, cut in direction of travel on outside, and at 45° on inside near shoulder after 1186 miles of service on March 31.
12	6	Spare went on ground to replace failed No. 17 and was run for 39.5 miles during morning shift on March 31.
12	16	Put on ground in place of failed No. 17 at noon March 31 to start test.
12	6	Put back on spare rack at noon March 31.
12	14	Found to have nail in tire at noon March 31. Removed for repair.
12	13	Put on to replace No. 14 at noon March 31.
12	8	Punctured by hypodermic thermocouple. Removed for repair, noon April 1, after 1527 miles of service.
12	14	Repaired and put on in place of No. 8, noon April 1. (Tire missed 296.8 miles.)
12	8	Repaired and put on ground, noon April 4. (Tire missed 296.8 miles.)
12	13	Removed for future use when No. 8 was put back in service, noon April 4, after running 593.6 miles.
61	14	Failure, "x" break during morning shift April 7 after 2373 miles of service
61	6	Spare put on ground after failure of No. 14. Tire No. 6 ran 38.4 miles during morning shift April 7.
61	13	Put on spare rack at noon April 7.

Truck No.	Tire No.	Maintenance or Changes
61	6	Punctured during night shift April 7. Removed for repair after a total of 123 miles of service.
61	13	Spare put on ground to replace punctured No. 6. By noon April 8, this tire had 843.3 miles.
61	. 1	Put on spare rack at end of night shift April 7.
61	15	Removed at end of night shift April 13 because of slow leak after 4065.8 miles of service.
61	6	Put on R. F. at end of night shift April 13 to replace No. 15.
61	16	Had a slow leak at noon April 15. Removed for repair after 3280.8 miles of service.
61	18	Put on in place of No. 16, noon April 15.
61	12	Failure, after running 55 miles on night shift April 15 after 4566 miles of service. Tire had a stone cut running about 20° off of crosswise on tread and was damaged by having been run flat.
61	1	New spare started test when put on ground to replace failed No. 12 and was run 93.4 miles on night shift April 15.
61	7	Put on spare rack at end of night shift April 15.
61	6	Removed from L. F. and put on R. R. during rotation April 18.
61	15	Repaired and put back on L. F. during rotation April 18.
61	1	Put back on spare rack after 241 miles during rotation April 18.
61	7	Left in shop for future service - zero miles.
12	18	Removed this temporary tire from service at end of night shift April 18 after 445.2 miles of service

Truck No.	Tire No.	Maintenance or Changes
12	16	Reinstalled after repairing leak at end of night shift April 18.
12	13	Removed for repair of slow leak at noon April 25.
12	18	Put on temporarily in place of No. 13 at noon April 25.
. 12	13	Repaired and reinstalled at noon April 25. (Missed 295.8 miles.)
12	18	Removed and left in shop for future use when No. 13 put back in service at noon April 26. (Tire now has 742 miles.)
12	8	Failure - Y-shaped rock break after running 44. 3 miles on night shift April 26 after 6271 miles of service.
12	Å	Spare put on ground when No. 8 failed and run 104. 1 miles during night shift April 26. At noon April 27, this rire had a total of 494. 3 miles.
12	18	Put on spare rack at end of night shift April 26.
34	13	Punctured after completing 101 miles on morning shift May 2, 1960.
34	18	Put on ground in place of No. 13 and run 47.4 miles during morning shift May 2. (789.4 miles at noon May 2.)
34	7	New spare put on spare rack at noon May 2. (0 miles).
34	15	Failure - L. F. went flat after completing 108.5 miles on morning shift May 4. Tire had a straight cut at 45° in tread after 7466 miles of service.
34	18	Flat at same time as No. 15 after total of 1344 miles of service May 4.

Truck N	lo. Tire No.	Maintenance or Changes
34	13	Tire had been repaired and brought out to driver to replace No. 15 to complete shift on morning of May 4.
34		Spare put on ground on R. R. in place of No. 18 to complete shift on morning of May 4.
34	7	Put back on spare rack during rotation at noon on May 4 after running 39.9 miles.
34	13	Removed from L. F. during rotation at noon May 4 and put on L. I. because No. 13 was a bogis tire.
34	10	New front tire started test at noon May 4.
34	1, 6, 13, 16	Bogie tires removed from vehicle at end of 36 psi test at noon May 6.
34	2, 3, 4, 11	New bogie tires started test at 30 psi, noon May 6.
34	3	Failure - Rock cut at 45° angle in tread after 185.6 miles of service on day shift, May 7.
34	7	Spare put on ground when No. 3 failed.
34	18	Had been repaired and was put on spare rack at noon May 7.
12	9	Failure - On R. F., removed from test after running 32.9 miles on night shift May 13 bacause tire leaked air through tread crack. Gracks had existed for some time and finally leaked. Gracks wore in direction of travel. 10,575 total miles.
12	18	Spare put on ground to replace No. 9 and run 115.5 miles during night shift May 13. (1450.2 miles at end of shift.)
12	5	New spare put on spare rack at end of night shift, May 13.
12	11	Removed during rotation May 17 to repair nail puncture.

Truck N	lo. Tire No.	Maintenance or Changes .
12	(extra) 1	Put on to replace No. 11 (tires 13, 16, 6 and 1 used in the 36 psi test had final measurements and were used as extra tires to finish 30 psi test.)
34	7	Failure - Straight stone cut in direction of travel after running 24.3 miles on night shift May 17. (2469 miles).
34	5	Spare put on ground when No. 7 failed and run 124. I miles during night shift May 17.
34	(extra) 16	Put on spare rack at end of night shift May 17.
34	11	Repaired and put back on ground at noon May 18. (Tire missed 296. 8 miles.)
34	(extra) l	Left in shop as spare at noon May 18.
34	2 & 11	Tires partially flat before morning shift at 2:30 a.m. May 23.
34 (	extra) 1 & 13	Substituted for 2 & 11 temporarily.
34	2 & 11	Put back in service at noon May 23. (Missed 135 miles.)
34	10	R. F Had a nail puncture moon May 24.
34	(extra) 13	Substituted for No. 10 noon May 24.
34	10	Repaired and reinstalled upon May 25. (Missed 296.8 miles.)
34	2	Removed during rotation for repair of nail puncture noon May 25. Extra tire substituted.
34	2	Reinstalled on R. R. at noon May 26.
34	Z	Removed to repair nail puncture non May 27. Extra No. 13 substituted.
34	2	Reinstalled at noon May 31.

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Truck No	Tire No.	Maintenance or Changes
34	4	Removed to repair nail puncture, noon May 31, extra No. 13 substituted.
34	4	Reinstalled at noon June 1.
34	2	Removed to repair another nail puncture, noon June 1.
34	2	Repaired and reinstalled at noon June 2.
34	2	Slow leak, removed to repair at noon June 5.
34	2	Repaired and reinstalled at noon June 7.
34	4	Punctured after running 40, 4 miles on night shift June 7.
34	(extra) 16	Installed to replace No. 4, above.
34	2	Went flat after running 54.9 miles on night shift June 8. Extra tire substituted.
34	4	Repaired and reinstalled at noon June 9.
34	11	Failure - Stone cut at 45° angle in tread after running 107.7 miles on morning shift June 10. (8344 total miles.)
34	2	Put back in service at noon June 13.

Mechanical failures of truck exhausted spare parts. Test terminated after completing night shift June 13, 1960.

### Unscheduled Tire Maintenance, 11,00-20 Tires

(Test started with Nos. 34 and 36 fronts, Nos. 30, 31, 32 and 33 bogies)

61	. 32	Punctured during night shift March 30.
61	35	Spare put on ground in place of 32. Ran 79 miles on this shift.
61	32	Repaired and reinstalled, noon March 31. (Missc 227.4 miles.)

Truck No.	Tire No.	Maintenance or Changes
61	35	Put back on spare rack at noon March 31. (Ran 227, 4 miles.)
12	30	Failure - Unknown cause, damaged by having been run flat on night shift April 6; 2447 total miles.
12	35	Put on ground to replace No. 30 during night shift April 6 and run 120.3 miles. At noon April 7, this tire had 496.1 miles.
12	37	Put on spare rack on April 7.
61	31	Finished Test - Chunked out rubber to cords and worn out. Still held air at noon April 21. 5730 total miles.
61	38	New tire installed on ground to replace No. 31, noon April 21.
(Truck trouble		ituted for No. 61 on night of April 21. Mechanical
34	36	Slow leak at noon April 26. Removed for repair.
34	37	Put on in place of No. 36 during rotation, noon April 26.
34	32	Finished Test - Worn out; removed noon April 26 after 6356 total miles.
34	39	New non-control tire installed on ground in place of No. 32 at noon April 26.
34		Non-control tire put on spare rack, noon April 26.
34	- 37	Removed from test after 148.4 miles to reserve tire for mobility tests at end of night shift April 26.
34	36	Repaired and reinstalled at end of night shift April 26 on L. F. (Missed 148.4 miles.) Tires now 34 & 36 fronts, 33, 35, 38, 39 bogies, non-control spare.

Truck No.	Tire No.	Maintenance or Changes
12	33	Failure - Stone cut in side wall near shoulder after running 33.4 miles on night shift April 28. 7229 total miles. A non-control spare tire replaced No. 33.
34	36	Removed from L.F. for repair of puncture at noon May 9. Non-control tire replacement used temporarily.
34	36	Repaired and reinstalled at end of night shift May 9. Tire missed 148.4 miles.
34	35	Finished Test - Removed during rotation at noon May 13. Worn out - still held air - 8384 total miles. Non-control tire substituted.
34	38	Finished Test - Removed at noon May 15. Worn and chunked out, still held air. 5317 total miles.
12	34	Finished Test - Removed from test at noon May 19. Worn out - still held air. 12,086 miles.
12	A	(Non-control tire.) Apparently run flat. Removed from vehicle during day shift May 21. 3747 total miles.
12	36	Finished Test - Removed from test. Worn out after total of 12,628 miles at noon May 23.

Test Terminated - Test tires exhausted, noon May 23.

#### E. Phase 5 - Mud Mobility

#### 1. Preparation of Vehicles and Equipment

Mud mobility tests were conducted with two M35, 2-1/2 ton 6 x 6 Reo trucks. Unit number 21160972 was equipped with (new) single 16-20 tires and the other truck, number 4A9206, with (new) single 11.00-20 tires, which are standard on the M34 Reo.

These trucks were ballasted with rocks, nominally 3 inches in diameter, to obtain loadings on the intermediate and rear axles comparable to those on the MI 35 trucks used in the durability tests. The actual GVW and wheel weights, which were determined in the same manner as on the MI 35's, were as follows:

	Truck No. 06	Truck No. 72
Left Front	27 <b>4</b> 0 15.	2750 15.
Right Front	2740	2780
Left Intermediate	3710	3710
Right Intermediate	3720	3740
Left Rear	3760	3750
Right Rear	3795	3735
GVW (State Certified)	20,680	20,680

Gross vehicle weights were determined by weighing the whole vehicle at once on a state certified scale and the wheel weights were determined on two scales set flush with a concluste floor in a permanent installation. The difference between the total of the wheel weights and the GVW, which amounts to an error of about 1%, was probably caused by hysteresis in the vehicles suspension system or possibly a small difference between the calibration of the scales.

These trucks were fitted with electric tachometers and were serviced and tuned up in the same manner as the durability test trucks.

While the vehicles were being prepared for test, several other items of equipment were constructed. An aircraft hydraulic cylinder, nominally 2 feet long and 4-1/4 inches in outside diameter, was fitted with a 0-1500 psi Ashcroft bourdon-tube pressure gage which had 10 psi subdivisions for use in measuring drawbar effort. The cylinder was then calibrated, and a linear relationship established between drawbar load (up to 16, 250 pounds) and gage pressure reading, on a Baldwin Tate-Emery Universal Testing Machine. An electric Roots counter

was connected through a short cable to the speedometer drive gear in the transfer case to determine average bogic wheel revolutions in traversing a measured distance. This equipment, together with its 110 volt A.C. inverter, fould be quickly transferred from one truck to the other.

Cone penetrometer measurements were scheduled to obtain an index of the shear strength of the mud. Three 30° cone tips were available with projected areas of 1/2, 1 and 2 sq. in. to cover the range of anticipated soil conditions. Deflection of the proving ring at the top of the penetrometer is indicated on a dial indicator which has an arbitrary scale to indicate the force required to push the penetrometer into the soil. This dial was calibrated on a platform scale to establish the linear relationship between the dial reading and the downward force. Shear strength measurements were also scheduled through the use of a grouser plate supplied by Detroit Arsenal. This unit consisted of two parallel aluminum plates, each approximately 7-1/2 inches long and 2 inches wide which had 25 evenly spaced fins projecting downward from the bottom of the plates. Measurement was to be made with a spring scale of the effort required for horizontal displacement against the restraining effect of the fins projecting into the mud with various vertical dead loads.

A mud course was prepared by removing the vegetation and leveling an area in a field. A portion of this natural hardpan surface, nominally 30 feet wide and 100 feet long, was then topped with a 1 to 2 inch layer of brown farm soil which was free of stones or rocks. Tests were conducted on this slick mud surface and later in a 12-inch depth of mud.

#### 2. Operating Procedure

After several days of trial runs in this area, a practical procedure was developed and was followed daily to compare the tractive effort of the 16-20 and 11.00-20 tires at various inflation pressures.

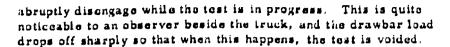
Before tests could be run in the morning, the farm zoil was smoothed out with a road grader to eradicate the ruts from previous tests. Water from a nearby reservoir was then sprayed on the area with a pump. The desired degree of muddiness could best be judged by observation or in walking in the area. Since the depth of mud was only about 2 inches, the cone penetrometer went through to the hardpan before a series of readings could be obtained. The grouser plates did not give very consistent information; if prore weights were stacked on top of the plates, a greater force was required to move it horizontally, but a plot of the

whight versus the towing force required gave scattered points through which no smooth curve could be drawn.

After preparing the area, the first test M35 truck was parked on the approach to the mud pit with a 2-1/2 ton M135 truck, which provided the towed load, connected with a 100 foot cable behind it. Interposed in the tow cable, immediately in front of the M135 truck, was the hydraulic :vlinder used to measure the drawbar load. The long cable enabled the M135 to operate on the dry approach to the pit where no wheel slippage would occur and the amount of towed load could be controlled through throttle opening. The engines of both trucks were then started and the drive trains were operated in first-low. The M35 was driven at governed engine rpm into the pit and the driver of the towed truck opened his throttle only enough to maintain slow forward motion. When the two vehicles became coordinated, one man walking baside the M35 placed a marker stick in the mud at the center of one of the bogie wheels and simultaneously signalled an observer in the truck to turn on his counter. After traveling about 35 feet, a second stick was placed in the mud and the observer noted the reading on the counter. After a total of about 70 feet, a third stick was placed in the mud at the center of the same wheel and the counter was switched off. During the progress through the course, an observer noted the readings of drawbar load. This load, the wheel revolution count, and the distance, measured with a steel tape between each of the stakes, were recorded. The trucks were then disconnected, the M135 backed to its original position and the other M35 was connected for a trial. The trucks were run alternately with each run in undisturbed mud, beside the previous run or astraddle of one set of the previous tracks. After completing the required trials, the course was allowed to dry in the hot afternoon sun so that it would be ready to grade the next morning.

Numerous repetitious trials were conducted with the 16-20 tires inflated to 12, 20, 28 and 36 psi and the 11.00-20 tires inflated to 15, 25, 35 and 45 psi. Data tabulated at the end of this section indicates that in the shallow mud depth, there was negligible change in the tractive effort with changes in inflation pressures. In comparing the two tire sizes, the 11.00-20's frequently appeared to have an advantage, but the margin of difference was small. The data presented excludes the first few days' work because of various troubles experienced. Some of these will be enumerated because they might be helpful in future work:

The sprag units in the front of the transfer case, which automatically engage the front wheels when the bogies turn 8% faster than the front whoels, sometimes fail to engage or



- The towed truck must be aligned directly behind the test truck to avoid going off course and reducing drawbar load.
- 3. Space must be left in filling the hydraulic cylinder to allow for thermal expansions one mid and a small snubber should be included in the gage line to smooth out pulsations developed in the traction flort. The sampler must be sized carefully to avoid too slow a reaction flore.

After completing the same brown farm soil. The area was smoothed with a grader and watered down for two days. With the tires on each truck inflated to their highest specified pressure, some experimental runs were made through the mud. The trucks were barely able to negotiate this mud, which was quite soft and sticky, so drawbar measurements were considered impractical. The mud required about four days to dry out and was then smoothed out with a disc harrow and a road grader. It was decided during the second trials that the trucks would be timed to measure the interval required to travel 90 feet in the mud. Unfortunately, the soil had apparently become compacted in preparing the area and both trucks traveled the length of the pit with ease.

After the mud had dried out again, a small crawler tractor (which exerted low ground pressure) with a 5-tooth ripper, was used to loosen the soil to a depth of 12 to 14 inches. The lumps were broken with a disc harrow and the area was again watered down over a two-day period. This was quite effective and produced a very soft, rather sticky mud which tended to slough back into the wheel tracks (like wet concrete immediately after it is poured). With the 2 inch cone, the penetrometer registered an average of about 45 at a depth of 1 foot, which corresponds to a downward force of only 27 pounds. The trucks were operated in first-low at governed engine rpm and entered the pit at approximately 4 mph. With the 16-20 tires inflated to 36 psi and the 11.00-20 tires to 45 psi, both trucks became stuck in the mud before traveling half the length of the pit. The trucks were pulled free and inflation pressures of all tires were lowered to 12 psi. The truck with the 16-20 tires was then able to travel the entire length of the pit, and the truck with 11,00-20 tires became immobilized after 42 feet. The unit with 11,00-20 tires was given another trial but slipped into the original ruts. At the end of these ruts, the truck stuck again. The unit with 16-20 tires

was given another trial and would have traveled the length of the pit a second time except that after approximately 80 feet, the front wheels disengaged, causing the truck to become immobilized. At the direction of Detroit Arsenal, the mud tests were then terminated.

#### 3. Data - Mud Mobility - Phase 5

Rolling Circumferences - Measured on pavement at 2 mph with vehicles loaded to 20, 680 pounds GVW.

	Inflation Pressure psi	Distance Traveled in 10 Wheel Revs.	Feet Per Revolution
16-20 Tires			
	12	101'-8"	.0.17
	20	105'-1"	10.51
	28	107'-10"	10.78
	36	109'-6"	10.95
11.00-20 Tires			
	15	991-411	9. 93
	25	102'-8"	10, 27
	35	105'-2"	10, 52
	45	106'-5"	10, 64

Wheel Revolution Counter - Was driven by the speedometer cable which had an overall ratio of 1.88 counts for each rear wheel -evolution (the speedometer adapters were for trucks with 9.0-20 res) or stated another way, each count equalled .532 wheel revolutions.

Example of Wheel Slip Calculation - (See Run 1, August 1, 1960 for base figures.)

16-20 tire circumference at 20 psi = 10.51 feet

Total wheel revolutions = 17

Distance traveled if no slip occured= 17x10.51x178,67 feet

Measured total distance traveled = 64.67 feet

178. 67 Total possible distance
-64. 67 Actual distance
114. 00 Feet slipped

114.00'/178.67' = 63.8% Slippage

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	1 sq. in. Cone
700	Penetrometer Measurements,
August 1, 1950	Penetrome

	0 (Top, large end, of cone flush with top of munications (Top of cone I inch below top surface of mud)
Depth, Inches	o ~
Actual Down-	65
ward Force, 1b.	135
Dial	120
Reading	260

## Grouser Plate Measurements

			Distance to Total Wheel	17.0 16.0 14.4 14.9
				64°-8" 70°-11" 69°-5" 73°-9"
			Wheel Revs.	1. 0. 1. 0. 1. 12 12 0.
			Distance to Wheel	31'-6" 35'-5" 34'-10" 36'-11"
force Req'd	10 01 01		Drawbar Pull, 1b.	1700 2560 2560 2210
Horizontal Force Req'd to Move Plates, 1b.	15 22 32 32		Inflation Pressure psi	ì
Vertical Load, 1b.	24 39-1/3 57-1/3	Vehicle Tests	Tire	16-20 11.00-20 11.00-20
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Avg. Percent Wheel Slip

63.8 56.8 53.1

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August 3, 1960

Penetrometer Measurements, 1 sq. in. Cone

Depth, Inches	0 1 0 1
Actual Down- ward Force, lb.	104. 5 155 55 124. 5
Dial Reading	200 300 100 240

## Grouser Plate Measurements

Horizontal Force Reg'd to Move Plates, 1b.	15 22 32
Vertical Load, 1b.	24 39-1/3 57-1/3

## Vehicle Tests

Avg. Percent Wheel Slip	67. 1 71. 2 61. 5 72. 3
ايد ن	17.6 21.8 16.5 22.3
Distance to 3rd Stake 1	63'-4" 66'-10" 67'-7" 67'-9"
Wheel	8.5 11.2 8.5 11.2
Distance to	30'-11" 33'-2" 33'-2" 33'-10"
Drawbar Pull, 1b.	2350 2800 2500 2210
Inflation Pressure psi	36 45 36
Tire Size	16-20 11.00-20 11.00-20 16-20
Test No.	- N E 4

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iq. in. Cone	Depth, Inches	<b>0</b> -1
Penetrometer Measurements, 1 sq. in. Cone	Actual Down- ward Force, 1b.	67 155
Penetrometer	Dial Reading	125 300

## Grouser Plate Measurements

Horizontal Force Reg'd to Move Plates, 1b.	16 23 34
Vertical Load, 1b.	24 39-1/3 57-1/3

## Vehicle Tests

Avg. Percent Wheel Slip 56.4 40.6 64.8 60.6
Total Wheel Revolutions 13.8 13.3 16.1
Distance to 3rd Stake 61'-3" 78'-5" 63'-3" 66'-1"
Wheel Revs. 7.5 6.9 10.1
Distance to 2nd Stake 31'-5" 35'-6" 31'-6" 34'-4"
Drawbar Pull, 1b. 2800 4150 2800 2500-2800
Inflation Pressure Psi 12 15 15 15
Tire Size 16-20 11. 00-20 16-20
Test No. 1

Data from Mobility Tests in 1 to 2 Inches of Mud

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August 5, 1960

Penetrometer Measurements, i sq. in. Cone

Depth, Inches	O =1
Actual Down-	79.7
ward Force, 1b.	155
Dial	150
Reading	300

Grouser Plate Measurements

Horizontal Force Req'd to Move Plates, 1b.	13 27 42
Vertical Load, 1b.	24 39-1/3 57-1/3

Vehicle Tests

Avg. Percent Wheel Slip	69.0 57.2
7 P.	19. 6 13. 6 26. 6 4
Distance to 3rd Stake	58'-6" 60'-9" 62'-2" 59'-3"
Wheel Revs.	9.0 9.0 7.5 12.2
Distance to 2nd Stake	29'-1" 30'-10" 31'-4" 29'-4"
Drawbar Pull, 1b.	2800 3300 2800 2800
Inflation Pressure psi	3 58 3 59 2 89 2 89
Tire	16-20 11.00-20 11.00-20 16-20
Test No.	~ N m 4

*Front wheel sprag unit disengaged during this test. Bogies spun and drawbar load dropped to 1150 lb.

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August 8, 1960

Penetrometer Measurements, 1 sq. in. Cone

Depth, Inches	0 11
Actual Down-	35
ward Force, 1b.	145
Dial	60
Reading	26.

## Grouser Plate Measurements

Horizontal Force Req'd to Move Plates, 1b.	12 23 38
Vertical Load, 1b.	24 39-1/3 57-1/3

## Vehicle Tests

#	
Avg. Percent Wheel Slip	64.5 66.9 71.9 62.2
Total Wheel Revolutions	54. 54. 54. 54.
Distance to 3rd Stake	57'-10" 61'-2" 62'-3" 61'-7"
Wheel Revs.	7.5 8.5 10.1
Distance to 2nd Stake	28'-9" 31'-5" 30'-8" 30'-9"
Drawbar Full, 1b.	2210 2680 2800 2550-2800
Inflation Pressure psi	125 125 125 125 125 125 125 125 125 125
Tire Size	16-20 11.00-20 11.00-20 16-20
Test No.	N W 4

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Data from Mobility Tests in 12 Inches of Mud

August 12, 1960

Several experimental trials conducted with each truck - Both trucks were barely able to travel through the length of the mud pit. 16-20 tires at 36 psi, 11.00-20 tires at 45 psi.

August 19, 1960

Same inflation pressures as on August 12.

Penetrometer Measurements, 2 sq. in. Cone

Depth, Inches	0 74 4	0 4 4 9	0 74
Actual Down- ward Force, ib.	17 62 64.5	30 84.5 104.5 124.5	35 124. 5 155
Dial Reading	25 115 160	50 160 200 240	60 240 300

Time to Traverse 96' in Mud

11.00-20 Tires 20 Sec. 16-20 Tires 21 Sec.

16-20 Tires 21 Sec. 16-20 Tires 27.5 Sec.

11.00-20 Tires Stuck after 26 Sec.

# Data from Mobility Tests in 12 Inches of Mud

August 26, 1960

the way wet concrete flows when it is first poured. With the 2 sq. in. cone penetrometer, measurements registered from 35 to 70 (21.5 to 40 lb. downward force) and averaged about 45 (27.5 lb.) at Mud was extremely soft, wet and sticky and tended to slough back into the vehicle tracks similar to a depth of 1 foot.

### Vehicle. Tests

	Performance	31' to stall	46'-6" to stall	37'-10" to stall	Ran complete length of pit	42' to stall	47' to stall	Truck ran 80' in mud and would have completed length of pit	but front wheels disengaged, causing stall.
Inflation Pressure	pei	36	45	45	12	12	12	71	
	Tire Size	16-20	11.00-20	11.00-20	16-20	11.00-20	11.00-20	16-20	
	Trial No.	1	7	l W	ಀ	'n	9	_	

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